Eastern Kentucky State Teachers College

RICHMOND, KENTUCKY

Member

Kentucky Association of Colleges and Secondary Schools
American Association of Teachers Colleges
Southern Association of Colleges and Secondary Schools

CATALOG

1938-39

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VOLUME XXX FEBRUARY, 1938 NUMBER 1

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1938 CALENDAR 1938

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1938—THE COLLEGE CALENDAR—1939

FIRST SEMESTER

September 16, 17	Friday, Saturday	Admission and classification of freshmen*
September 19	Monday	Registration of Upper Classmen
September 20	Tuesday	Classes begin
September 26	Monday	Last day to register for full load
October 3	Monday	Last day to register for credit
November 24, 25, 26	Thurs., Fri., Sat.	Thanksgiving (Holiday)
December 17	Saturday (Noon)	Christmas vacation begins
January 2	Monday	Class work resumes
January 27	Friday	Semester closes

SECOND SEMESTER

January 30	Monday	Registration
January 31	Tuesday	Classes begin
February 6	Monday	Last day to register for full load
February 13	Monday	Last day to register for credit
April 3	Monday	Registration for Spring Term
April 4	Tuesday	Classes begin
April 5	Wednesday	Last day to register for full load
April 8	Saturday	Last day to register for credit

(Commencement Season)

May 28	Sunday	Baccalaureate address
May 31	Wednesday	Commencement
June 2	Friday	Semester closes

* It is necessary for beginning freshmen to be present on September 16, 17, 18, and 19.

ORGANIZATION

BOARD OF REGENTS

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State Superintendent of Public Instruction, Ex Officio Chairman

J. W. CAMMACK, Owenton, Kentucky
Term Expires 1940

H. D. FITZPATRICK, Prestonsburg, Kentucky
Term Expires 1940

KEEN JOHNSON, Richmond, Kentucky
Term Expires 1938

JESSE ALVERSON, Harlan, Kentucky
Term Expires 1938

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B. S., Western Kentucky State Teachers College; M. Ed., University of Missouri.

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Diploma, Martin College; B. S., M. A., George Peabody College for Teachers.

GERMANIA J. WINGO, B. S., M. A. Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School

Diploma, Virginia State Normal School; Diploma in critic work, Columbia University; B. S., M. A., Teachers College, Columbia University; additional graduate work, University of Colorado.

LIBRARY STAFF

MARY FLOYD, A. B., M. A., B. S. in Library Service Librarian

A. B., Eastern Kentucky State Teachers College; M. A., Teachers College, Columbia University; graduate student, University of Chicago; B. S. in Library Service, Columbia University.

ISABEL BENNETT, A. B., B. S. in Library Science Assistant Librarian in Charge of Circulation

A. B., University of Kentucky; B. S. in Library Science, Columbia University.

FRANCES MASON, A. B., A. B. in Library Science Assistant Librarian in Charge of Training School Library

A. B., Eastern Kentucky State Teachers College; A. B., in Library Science, Emory University.

MRS. LUCILE WHITEHEAD, B. S., B. S. in Library Science Assistant Librarian in Charge of Reference Work

B. S., B. S. in Library Science, George Peabody College for Teachers.

ADMINISTRATIVE STAFF

G. M. BROCK, Business Agent

W. A. AULT, Superintendent Buildings and Grounds

FRED BALLOU, Book Store Clerk

SAM BECKLEY, B. A., Assistant Director of Extension

INEZ McKINLEY BLAIR, Assistant Bookkeeper and Stenographer

MRS. ETHEL BLANTON, Housekeeper, Burnam Hall

LOUISE BROADDUS, A. B., Stenographer, Business Office

LOIS COLLEY, Secretary to Business Agent

MARTHA J. CULTON, A. B., Secretary to Registrar

LUCILE DERRICK, B. S., M. A., Assistant to Director of Research

AGNES EDMUNDS, A. B., Stenographer, Registrar's Office

BESSIE H. GRIGGS, Information Clerk

E. P. McCONNELL, Bookkeeper

EDITH L. McILVAIN, Supervisor of Cafeteria

KATHERINE MORGAN, Secretary to the President

GLADYS KARRICK NORSWORTHY, B. S., Cashier

EMMA OSBORNE, Secretary to the Director of Extension

HELEN W. PERRY, Recorder, Registrar's Office

VIRGINIA CARROLL STITH, Stenographer, Dean's Office

MAYE M. WALTZ, Secretary to Dean

EDNA WHITE, Registered Nurse

EUNICE WINGO, Secretary to Dean of Women

Faculty Organization

DIVISIONS OF INSTRUCTION

1. APPLIED ARTS AND SCIENCES.....William J. Moore, Chairman
2. FINE ARTS.....James E. Van Peursem, Chairman
3. BIOLOGICAL AND PHYSICAL SCIENCES.....Arnim D. Hummell, Chairman
4. EDUCATION.....William C. Jones, Chairman
5 HEALTH AND PHYSICAL EDUCATION.....Thomas E. McDonough, Chairman
6. LANGUAGES.....Roy B. Clark, Chairman
7. MATHEMATICS.....Smith Park, Chairman
8. SOCIAL SCIENCE.....C. A. Keith, Chairman
9. MILITARY SCIENCE AND TACTICS.....Maj. Charles W. Gallaher, Chairman

COMMITTEES

Alumni

Moore, Adams, Beckley, Carpenter, Case, Coates, Culton, Derrick, Floyd, Lingenfelser, McKinney, Park, Regenstein, Richards, Story, Tyng

Graduation

Kennamer, Case, Farris, Hummell, Jenkins, Jones, Keith, Mattox

Student Schedules

Keith and others as assigned

Credits and Credentials

Mattox, Carter, Clark, Cuff, Gumbert, Herndon, Jones, Lee, Park

Entrance Examinations

Moore, Barnhill, Burns, Gill, Jones, McKinney, Mattox, Walker

Fine Arts and Entertainment

Farris, Buchanan, Campbell, Kennamer, Kinzer, Mebane, Murbach, Sams, Stone, Telford, Tyng, Van Peursem

Library

Floyd, Barnhill, Carter, Clark, Cox, Edwards, Ford, Jones, Keith, Kennamer, McDonough, Park, Rumbold

The Training School
Edwards, O'Donnell, the critic teachers, and the teachers of education

Athletics
McDonough, Coates, Farris, Park, Hummell

Societies, Clubs, and Forensics
Clark, Barnhill, Burns, Dix, Dorris, Ferrell, Ford, Hounchell

Student Publications
Keene, Cuff, Deniston, Gibson, Hood, Richards, Rumbold

Eastern Kentucky Review—Catalog
Dorris, Clark, Edwards, Keene, Krick, Mattox, Schnieb

Curriculum
Jones, Clark, Cox, Dix, Dorris, Edwards, Hansen, Mattox, Moore, Park, Tyng

Student Welfare, Discipline and Grievances
Donovan, Farris, Hansen, Jones, Lee, McDonough

Rules and Regulations
Park, Carter, Edwards, Fowler, Jones, Keith, Mattox

Socials and Receptions
Case, Beckley, Cherry, Cuff, Dix, Hummell, Keith, Krick, Lee, Whalin

Extension
Carter, Adams, Dorris, Engle, Hembree, Jones, Mattox

Student Loans, Scholarships and Fellowships
Cuff, Brock, Case, Cox, Keith, McDonough, Rankin, Schnieb

Student Labor
Farris, Brock, Case, Carter, Floyd, Jones, McDonough, McIlvain

Student Guidance and Personnel
Jones, Case, Coates, Derrick, Farris, Keith, Lee, Mattox

GENERAL INFORMATION

FUNCTION

The primary function of the Eastern Kentucky State Teachers College is that of educating teachers, supervisors, and administrators for the public rural and urban elementary and secondary schools of the state. The college has as its aim the development of both culture and skill in the technique of teaching. These two phases—the attainment of scholarship and a mastery of the art of teaching—constitute the companionate purposes of the institution.

There are other subsidiary functions of the college. These are the operation of the training school, field service, research, the development of ethical professional standards or ideals, and supplementary service.

Training School—The training school is an integral part of the college and is as indispensable to the program of teacher training as a hospital is to the medical school.

Field Service—It is the function of the college to render to the state different field services in the promotion of a system of public education.

Research—It is the function of the institution to discover better ways of teaching through the use of research and experimentation.

The Development of Ethical Professional Standards or Ideals—The institution assumes the responsibility for developing ethical professional standards or ideals.

Supplementary Service—The college courses necessary for entering the professional schools of many of the learned professions are offered. These courses are given as a part of the regular program of the College and do not involve additional cost to the State. An increasing number of students who expect to enter the professions of law, medicine, engineering, and others, are taking their pre-professional college work at Eastern. This work is fully recognized by the leading professional schools of the country.

HISTORY

On January 6, 1906, the bill creating the State Normal Schools was introduced by Hon. R. W. Miller, of Madison County, in the lower house of the General Assembly of Kentucky. The measure was put on its final passage in the House on March 2, and in the Senate on March 9, and received the unanimous support of both Houses. It was signed by Governor Beckham on March 21, and as the bill carried an "emergency clause," it became a law at once.

On April 5, 1906, the Governor appointed the commissioners to locate the two Normal Schools. Messrs. B. M. Arnett of Nicholasville, John Morris of Covington, George Payne of Paducah, George B. Edwards of Russellville, Basil Richardson of Glasgow, E. H. Mark of Louisville, and M. G. Watson of Louisa, constituted the commission.

On May 1, 1906, the commission visited Richmond to inspect the site offered by that city and on May 7 it met in Louisville and named Richmond and Bowling Green as the homes of the new schools. On May 9, 1906, the first Board of Regents was named: Hon. James H. Fuqua, Sr., State Superintendent of Public Instruction, ex officio Chairman; Hon. J. A. Sullivan, Richmond, Ky.; Mr. P. W. Grinstead, Cold Springs, Ky.; Hon. Fred A. Vaughan, Paintsville, Ky.; Senator J. W. Cammack, Owenton, Ky.

The Regents met on June 2 and elected Ruric Nevel Roark, at the time an honorary fellow in Clark University, as President. The Model School opened September 7, 1906; the Normal School opened for students on January 15, 1907. Dr. Roark died April 14, 1909, and Mrs. Roark was elected acting president on April 16. She served in this capacity until March 18, 1910, when John Grant Crabbe, then Superintendent of Public Instruction, was elected president. Dr. Crabbe served as president until September 1, 1916. On June 16, 1916, he resigned to take effect September 1, to accept the presidency of Teachers College, Greeley, Colorado. On September 5, 1916, the Board of Regents met at Lexington, Kentucky, and elected T. J. Coates, State Supervisor of Rural Schools, to the presidency of the institution. Mr. Coates entered upon his term of office September 7 and continued in office until his death, March 17, 1928. Dr. Homer E. Cooper, Dean, was elected act-

ing president March 19 and served in this capacity until June 1. The Board of Regents met in Louisville on March 26, 1928, and elected H. L. Donovan, Professor of Education of Peabody College, president.

LOCATION

The Eastern Kentucky State Teachers College is located in Richmond, Madison County, on the main line of the L. & N. Railway, on the Dixie Highway (U. S. No. 25), and on U. S. Highway No. 227, thus making it very conveniently reached from any direction. The College is surrounded with points of historic interest, and the location, where the mountains meet the blue grass, is unsurpassed for its natural beauty.

Richmond is a city of approximately eight thousand population. It is large enough to afford the essential material conveniences for the care of the student body, but not so large that it detracts from the main purposes of the College. Richmond is largely a residential center. In it are located churches of all the leading denominations.

CAMPUS

Richmond gave to the State for the home of Eastern Kentucky State Teachers College the buildings and campus of old Central University. The campus is one of the most beautiful in the South. It has a splendid sweep of blue grass turf, thickly set with fine maples and other trees.

BUILDINGS

University Building—This building was erected by Old Central University in 1874. The structure was recently remodeled, extensive improvements being made to modernize the interior. The Model High School occupies this building.

Industrial Arts Building—This building houses the Department of Industrial Arts, including the woodworking and industrial arts shops and drafting rooms. Complete woodworking equipment, including lathes, band saws, circular saws, planers and jointers, is installed in this building. The building was formerly occupied by the preparatory school of Old Central University.

The President's Home—This building is situated on the northwest corner of the campus, facing Lancaster Avenue, just north of the Administration Building. It is a large two-story brick building.

Ruric Nevel Roark Building—This building is named in honor of the first president. It was erected in 1909. The laboratories for physics, chemistry, and biology are located in this building. These laboratories are well equipped for special and individual study. The building also contains several lecture and class rooms.

James W. Cammack Building—This building was constructed in 1918 and was recently remodeled and refurnished. The building was designed and is used entirely for the elementary grades of the Training School. It contains laboratories, classrooms, practice rooms, offices and assembly rooms.

John Grant Crabbe Library—This building was constructed in 1923 and is named in honor of the second president of the institution. It is a two-story, fire-proof structure and is used exclusively for library purposes. The building contains more than 53,000 volumes, a large picture collection, and several thousand pamphlets. The John Wilson Townsend collection of Kentucky books is housed in the Kentucky Room of the library. The children's section of the library contains the best available literature for children. It is used by the children of the training school and also serves as a laboratory for college students.

A new addition, recently constructed, has more than doubled the capacity of the library. This addition contains ample space to accommodate the library needs of the institution.

Memorial Hall—Memorial Hall is the dormitory for men. It is modern, well equipped, and completely furnished. It accommodates approximately 150 students.

Sullivan Hall—This building is modern in every respect. It accommodates approximately 175 women students.

Burnam Hall—This building, recently constructed, is a beautiful dormitory for women. It is a fireproof structure and accommodates 316 students. The rooms are arranged in suites of two with private bath. A spacious lobby, beautifully

furnished, occupies the entire front central section of the first floor. In this dormitory is located the cafeteria which has a seating capacity of 620. There are also in this hall, available for the use of students, a large recreation room, small club rooms, and a well equipped laundry.

The Thomas Jackson Coates Administration Building—This building, erected in 1928, is located on Lancaster Avenue, between Roark Building and the President's home. It contains the administrative offices, departmental offices, classrooms, the college bookstore and college post office. The Administration Building is named in honor of the late Thomas Jackson Coates, Eastern's third president.

Hiram Brock Auditorium—The Auditorium was erected in 1930 and adjoins the Coates Administration Building. It has a seating capacity of 2,000. The stage is 40x30 feet and is fully equipped with the most modern devices for handling stage scenery and settings. The stage curtains and draperies are of handsome silk plush. A fully equipped projection room for the exhibition of motion pictures is provided. Ten studios and classrooms are provided in this building for the Department of Music.

Weaver Health Building—This building is named in honor of the late Hon. Charles F. Weaver of Ashland, Kentucky, a former member of the Board of Regents. It is one of the largest and best equipped buildings on the campus. It contains complete gymnasium facilities, including a large gymnasium 110 feet by 90 feet with a seating capacity of 2,000 and a small gymnasium 74 by 40 feet. All necessary apparatus for physical education has been installed in the building. In this building is located the official-size, tile swimming pool which is equipped with all necessary machinery for heating, filtering, and purifying the water. Adjacent to the swimming pool are more than 1,100 steel lockers for the use of students. The building also contains classrooms and laboratories for the departments of physical education and health, and offices of the college physician and of members of the physical education staff.

Heating Plant—All buildings on the college campus are heated by a central heating plant. This plant was erected in 1909 and contains all the necessary heating equipment including the boilers and pumps.

Hanger Stadium—The Hanger Stadium is the most recent addition to the buildings on the campus. It is a gift of friends, faculty, and students of the college, supplemented by a P. W. A. grant. The stadium has a seating capacity of approximately 5,000 people, and was built at an approximate cost of $50,000.00. It is a concrete, steel, and tile structure and contains living quarters for approximately thirty men students. It also contains offices for coaches, dressing rooms, showers, and equipment rooms.

COLLEGE FARM

New Stateland Hall—This is a large modern brick dwelling situated on the farm. It is furnished and equipped, and is used for Home Management work in connection with the course in vocational home economics.

New Stateland Farm—Eastern owns an excellent farm of 180 acres. It bounds the original campus on the east and south. The farm is used for laboratory purposes by the department of agriculture. The activities of the farm are those which are usually found in this part of the State. The farm produces a large amount of the vegetables, fruit, and dairy products used in the college cafeteria.

Dairy Barn—A model dairy barn with a capacity of thirty dairy cows has recently been erected on New Stateland Farm. The dairy herd is composed of purebred Holsteins.

ROOMS

Living Regulations—Both men and women students are required to occupy dormitory rooms while rooms are available on the campus. After the dormitories are filled, students may take rooms in private homes in Richmond, but should not engage rooms without first consulting the Dean of Women or the Dean of Men. Students when living off the campus are required to room in homes approved by the college.

All students not living in their own homes, whether rooming in the dormitories, in private homes, or rooming houses, are alike subject to the regulations, control and supervision of the college.

Students living in the dormitories are expected to care for their rooms and to keep them clean and orderly. The col-

lege attempts to make it possible for students to live in a refined atmosphere and under good living conditions; therefore, it expects those who occupy rooms in the dormitories to keep them in good condition. Students are expected to be economical in the use of water, lights, and heat. Lights should always be turned off when leaving rooms.

Positively no cooking, storage or serving of food will be permitted in dormitory rooms. Any student violating this rule may be asked to release his or her room and in the case of such release of room, no room rent will be refunded.

Dormitory Rooms for Women Students—Practically all rooms in the women's dormitories are two-student rooms, but there are a few corner rooms, to which three students are assigned. The dormitories will accommodate 435 women students. Rooms in Burnam Hall and Sullivan Hall are completely furnished, steam heated, and lighted by electricity. Hot and cold water are furnished in all rooms in these buildings. Each suite of two rooms in New Burnam Hall has a private bath.

Dormitory Rooms for Men Students—The men's dormitory, accommodating approximately 150 men, is completely furnished, lighted by electricity, heated by steam, equipped with baths and showers, and is convenient and comfortable at all seasons of the year. All rooms are equipped with lavatories supplying hot and cold water. Most rooms accommodate two students, a few, three students.

Off-Campus Rooms for Students—Many of the homes of Richmond are equipped to take care of students who are unable to secure dormitory rooms. A list of approved Richmond homes is available and may be secured upon request from the Dean of Women or the Dean of Men. Many of these homes have facilities for light housekeeping. Furnished and unfurnished homes may be rented by married couples or families.

Rate of Room Rent in Dormitories—The rate of room rent for rooms in the dormitories varies according to the location, furnishings, equipment, and the number of students occupying a room. Rooms in New Burnam Hall arranged in suites of two with private bath, rent at a higher rate than rooms in

Sullivan and Memorial Halls, where central bathrooms are located on each floor. All rooms not having bath adjoining are equipped with lavatories supplying hot and cold water. All rooms in the dormitories are equipped with single beds.

BURNAM HALL—Dormitory for Women

Front rooms	$2.25	per	week	per	student
Outside rooms—South section	2.00	"	"	"	"
Inside rooms—on court	1.80	"	"	"	"
Front rooms—North section	1.50	"	"	"	"
All other rooms—North section	1.35	"	"	"	"

All rooms in Burnam Hall are equipped with single beds.

SULLIVAN HALL—Dormitory for Women

Front rooms	$1.35 to $1.50	per	week	per	student
All other rooms except fourth floor	1.35	"	"	"	"
Rooms on fourth floor	1.00	"	"	"	"

All rooms in Sullivan Hall are equipped with single beds.

MEMORIAL HALL—Dormitory for Men

Prices for rooms in this dormitory range from $1.50 to $1.80 per week per student.

All rooms in Memorial Hall are equipped with single beds.

Dormitory Room Reservations—Students desiring to have rooms reserved in the dormitories should write the Business Agent for application card. When applying for dormitory reservations, students should mention the price of room preferred.

Applications for room reservations are filed in the order in which they are received and in that order rooms are assigned. Rooms for the fall semester can generally be assigned promptly upon receipt of applications. Room reservations for the second semester and summer school cannot be made until the number of students vacating the dormitories at the close of the preceding term is determined. Frequently it is necessary to defer issuing assignments for the second semester and summer school until a short time before the beginning of these terms.

Room Reservations are void unless claimed by 6:30 P. M. of the opening day of the semester or term, and the fee is forfeited. Room reservations are not transferable.

Room Deposit Fee—When the room assignment is received by the student, a room deposit fee of $5.00 must be paid within

ten days to make the reservation permanent. This fee is retained by the college, as a guarantee of the proper care of room and furnishings, until the termination of the student's stay in the dormitory, at which time the whole, or such part of it as may be due after deduction for damage is made, will be refunded to the student.

Room reservation fees should not be sent until dormitory assignments have been received. A room reservation fee will be refunded only when receipt is surrendered not later than ten days before the opening of the term or semester.

Laundry and Linen Service Fee—Students occupying dormitory rooms will pay a fee of $2.00 for each semester or $1.00 for each five-week summer term for laundry and linen service. This fee will cover the cost of sheets and pillow cases furnished by the college and will also provide for laundering of bed linens.

BOARD

Board is provided in the cafeteria in Burnam Hall. The cafeteria is equipped to serve about a thousand students. Cafeteria coupon books, good for $5.00 in board, are on sale at the Business Office and may be purchased as needed. Men and women students occupying rooms on the campus are expected to take their meals at the college cafeteria.

Students rooming on the campus are required to pay in advance for five cafeteria coupon books at the beginning of each semester, for five at mid-semester, and for three at the beginning of each summer term. These ticket books contain coupons good for $5.00 in board. The amount of board required to be paid in advance at the opening of each semester and mid-semester is $23.00 for which the student will receive five coupon books good for $25.00 in board. A payment of $14.25 will be required in advance at the opening of each summer term for which the student will receive three coupon books good for $15.00 in board.

Students rooming off the campus will receive the benefit of the special discount when purchasing coupon books in the same quantities as required of occupants of the dormitories. **When coupon books are purchased singly, they will be paid for at the rate of $5.00 each, no discount being allowed.**

FEES

Method of Payment—All payments of college expenses made by students must be by certified check, postal or express money order, cashier's check, or cash. No personal checks will be accepted. This policy has been made necessary through conditions over which the institution has no control, and to enable the institution to carry out the provisions of certain laws enacted by the legislature.

Incidental Fee—Each student pays an incidental fee of $25.00 each semester. Students who register for nine semester hours or less for any semester or term, pay an incidental fee of $12.50. The incidental fee for the spring term is $12.50. This fee is paid at the time of registration and entitles the student to:

1. Reduced admission rates to regular numbers of the Lectures and Fine Arts series
2. Subscription to the Eastern Progress
3. Library service
4. Health service
5. Reduced admission rates to intercollegiate contests
6. Activities sponsored by Social Committee.

Tuition—Tuition is free to residents of Kentucky. Non-residents of Kentucky pay tuition at the rate of $15.00 per semester:

The average expenses for one semester (18 weeks) are as follows:

Incidental Fee	$ 25.00
Room Rent in Dormitories	27.00
Board in College Cafeteria	64.40
College Post Office Box Rent	.50
Laboratory Fees	2.00
Books and Class Supplies	10.00
Total Average Expenses	$128.90

The following expenses are payable in advance for the semester.

Incidental Fee	$25.00
Room Rent in Dormitories	$18.00 to 40.50
Board in College Cafeteria	23.00
College Post Office Box Rent	.50
Total to be paid in advance	$66.50 to $89.00

Expenses for Summer School—Expenses for the summer school are in proportion to expenses for the regular semester.

Laboratory Fees—The fees to be paid for laboratory courses are indicated in connection with descriptions of these courses in another part of this catalog. Laboratory fees cover the cost of materials and laboratory service furnished. Laboratory fees are paid at the time of registration.

Breakage Deposit—Students who enroll for courses in biology, chemistry, geology, physics, and for laboratory courses in health are required to pay a breakage deposit of $2.00 per course. In case of breakage or damage to laboratory apparatus, deductions are made from this deposit to cover such damage. This deposit is refunded at the end of the semester.

Locker, Lock, and Towel Rental—Students who use lockers in the Weaver Health Building are required to pay a rental of $1.25 per semester or term for use of locker, combination lock for locker, and towel. This fee includes laundry service for towels and bathing suits for the entire semester or term.

Fee for Use of Radio—Students who use radios in dormitory rooms are required to pay a fee of 50c per semester or term to cover the cost of operation.

Fee for Late Registration—Students who register after the first two days of a semester or term are required to pay a late registration fee of $1.00.

Fee for Change of Schedule—A fee of 50c will be charged for each voluntary change which a student makes in his schedule after it has been prepared and approved at the time of registration.

Graduation Fee—Each student who receives the baccalaureate degree pays a fee of $7.50. This fee covers cost of diploma, cap and gown rental, and other expenses incidental to graduation.

Special Examination Fee—Students to whom it is necessary to give a special examination after the regular scheduled time for same will be charged a fee of fifty cents. A special examination is defined as any examination other than examinations for entrance, course examinations, and examinations for advanced standing.

FEE FOR TRANSCRIPT

Each student will be given one transcript of his work without charge. There will be a fee of $1.00 for each additional transcript after the first one has been furnished.

OPPORTUNITY FOR STUDENT EMPLOYMENT

A limited number of students may earn a part of their expenses by doing various kinds of jobs for the college cafeteria, book store, post office, dormitories, information office, farm, etc. Some students may also secure part-time employment in Richmond stores, restaurants, and other business establishments.

Students are advised not to enter expecting employment of this kind unless they have arranged for it in advance. Students are cautioned against attempting to do such outside work unless they are doing a very high grade of work in their classes and have a physical vigor that makes additional duties possible without endangering their health.

As a general rule students should enter prepared to pay all their expenses for at least one semester.

LOANS AND SCHOLARSHIPS

Loans—The student loan fund of the Eastern Kentucky State Teachers College is designed to help worthy students complete their education. The fund has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Upper-class students and those having high scholarship records will be given preference in granting loans. This fund makes it possible for a worthy student to borrow on a personal note a small sum at a legal rate of interest. Students who desire further information concerning this fund should see the Chairman of the Student Loan Committee.

William Davis Scholarships—Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of students living in the Lona Estella Davis school district of Rowan County, to be used as scholarships at the Eastern Kentucky State Teachers College. These scholarships are awarded by the superintendent of Rowan County and the president of the Eastern Kentucky

State Teachers College. Inquiries concerning these scholarships should be addressed to the superintendent of Rowan County. These scholarships amount to $200.00.

Music Scholarships—The college awards annually three scholarships to those students who make the most satisfactory progress in piano, voice, and violin. The value of these scholarships is $54.00 each.

Regents Medal for Oratory—The Regents of the College will present annually a medal for the best oration given by a college student under the direction of the proper authorities.

BOOK STORE AND POST OFFICE

The college book store and post office are located on the ground floor of the Administration Building, and are convenient to all students. Individual lock boxes are furnished in the post office for all students occupying dormitory rooms. For the convenience of students all necessary books and class supplies are carried in the book store.

ASSEMBLY PROGRAMS—ATTENDANCE REQUIRED

The assembly programs constitute an integral part of the work of the Institution. They have been given the unqualified support and endorsement of the board of regents, the president, faculty, and students. Students are required to attend these programs. At a meeting of the Board of Regents on March 14, 1931, the following resolution concerning assembly programs was passed:

Be It Resolved, That it is the opinion of the Board of Regents that the assembly programs are a vital part of the instruction offered by the institution. Through such programs as are given at the assembly period, ideals are created, information disseminated, professional attitudes established, culture of many types brought to students, and school spirit developed. Because of its fundamental value we expect both students and faculty members to attend these programs. In the event a student refuses to attend the assembly programs without being excused, we authorize the President to use such disciplinary measures as he may in his judgment deem expedient to secure cooperation and attendance from such student.

Students are allowed three absences each semester without penalty. This is for the purpose of taking care of absences due to business or to illness which does not require the services of the College Physician. The schedule of penalties for failure to attend assembly programs is as follows:

Number of Absences	Quality Point Deduction
4	1
5	1½
6	2
7	2½
8	3
9	3½
10	4

One point will be deducted for each absence after the tenth.

DISCIPLINE

Eastern is responsible to the State for the character and scholarship of its graduates—those who are to teach in the public schools. The institution will, therefore, ask students to withdraw if they are found unfit or in any way unworthy to become teachers.

But few rules and regulations are necessary. Students are to be ladies and gentlemen under all circumstances. This is the chief requirement. Parents may send their boys and girls here with the assurance that their safety, their general culture and their education will be carefully guarded.

FINE ARTS SERIES

It is the purpose of Eastern to surround her students with every cultural advantage. To this end much time and effort are expended to provide programs by the foremost artists. Each student is able to attend these concerts at a very small expense.

PUBLICATIONS

The Milestone—The Milestone is the college annual published each year by representatives of the Senior Class. This publication contains photographic and statistical records of all organizations and events of the college year. The staff consists of an editor-in-chief, associate editor, business manager, and various departmental editors, all chosen from the student body.

The Eastern Progress—The Eastern Progress is published by the students and is the newspaper of the college. It is published twice each month during the entire year and is distributed to each student of the institution.

Eastern Kentucky Review—This publication is the official review published by the College. It is edited by the faculty.

HEALTH SERVICE

Eastern maintains a department of health in charge of the college physician. The students have the privilege of consulting the college physician for medical advice and attention at all times. Students are given immunizations for various contagious diseases. Hospital rooms are maintained in both the men's and women's dormitories where cases of contagious diseases and other ailments are cared for. Complete physical examinations are given to all students each year.

All students, whether living in the dormitories or off the campus are entitled to free advice and service of the health department. A full-time registered nurse resides in one of the women's dormitories and gives her entire attention to the health of the student body. The physician's office is fully equipped for medical service. Regular office hours are maintained and students are urged to take advantage of the health service.

PHYSICAL EDUCATION

Athletics—Intercollegiate athletic contests are held under the supervision of the Faculty Committee on Athletics, which committee is appointed by the President. Eastern is a member of the Southern Intercollegiate Athletic Association, and all athletic contests are governed by the eligibility rules of that body. Representative teams are developed in football, baseball, basketball, and tennis. These teams play a complete schedule of games with other colleges. The gymnasium in the Weaver Health Building provides complete facilities for all types of indoor athletics, including swimming.

Play and Recreation—Eastern affords its students opportunities for play and recreation. Recreational activities, giving credit, are required of all freshmen and sophomores. These activities, offered during school hours, are varied and sea-

sonal. The aims are to develop regular habits of play, physical strength and vigor, and sportsmanship. The utilitarian values of participation in such activities are stressed. Sports, such as playground baseball, volley ball, soccer, speedball, hockey, lacrosse, track and field archery, handball, lower organized games and their modifications, are offered.

Every student has an opportunity to participate in the leisure-time activities which are offered by seasonal tournaments. These tournaments are organized through the medium of classes, societies, and recreational sections. Every student has an opportunity to belong to a team.

The Swimming Pool—The swimming pool in the Weaver Health Building serves both the college and the training school students. **Only those officially connected with the institution are permitted to use the pool.** A complete physical examination and a health certificate are required for admission. Students who expect to use the pool should see the college physician and arrange to take a complete physical examination. Regulation cotton bathing suits are required. Admission to the pool is strictly according to schedule.

ADMISSION REQUIREMENTS

Graduation from an accredited high school with two majors, one of which shall be English, and a minor is required for admission to the freshman class. A minimum of three units is required for a major and a minimum of two units is required for a minor.

Applicants for admission who have completed high school work at non-accredited secondary schools may be admitted by examination in this institution.

Experienced teachers over twenty-one years of age who are unable to meet entrance requirements stated above are admitted to such work as they are qualified to take, but no certificate will be recommended or degree issued until all requirements, including entrance requirements, shall have been met.

NUMBERING OF COURSES

Courses are numbered according to the following scheme:

Courses numbered 100 to 199 inclusive are primarily for freshmen.
Courses numbered 200 to 299 inclusive are primarily for sophomores.
Courses numbered 300 to 399 inclusive are primarily for juniors.
Courses numbered 400 to 499 inclusive are primarily for seniors.

GRADING SYSTEM

Grades are indicated by letters, to each of which is given a certain value in "grade points". The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points per Semester Hour
A	Excellent	3
B	Good	2
C	Average	1
D	Poor	0
F	Failure	0
I	Incomplete	
Z	Conditioned	

The grades A, B, C, D, and F, cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree if with such credits the student's standing is 1 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable conditions. A grade of "I" must be made complete within one month after the student re-enters the institution. All grades of "I" automatically become "F" if not completed at the end of a year. The grade of "Z" shall represent a degree of attainment inferior to that of a "D" and shall not entitle the student to any credit but shall promote him to a sequent course in the same department specified by the instructor or head of the department. On completion of this sequent course with a grade of "D" or higher, the mark of "Z" shall be changed automatically to a grade of "D".

The standing of a student is defined as the ratio of his total number of "grade points" to his total number of semester hours credit. In order for a student to fulfill the requirements for a certificate or a degree he must offer a number of "grade points" at least as great as the number of semester hours.

EXPLANATION OF CREDITS

All work in the college is measured in semester hours, a semester hour being eighteen fifty-minute recitations. College subjects have different values determined by the number of hours of recitations per week. The semester hour value of each course is stated in the catalog.

STUDENT LOAD

The normal load for a semester for all students is sixteen semester hours exclusive of Physical Education 110 and 200. The minimum load to be classed as a full-time student is twelve semester hours. Students with an established record of superior quality may take a maximum of nineteen hours provided the application is properly approved at the time of registration.

The normal load for a summer term for all students is six semester hours. The minimum load to be classed as a full-time student is four semester hours. Students with an established record of superior quality may take a maximum of seven semester hours provided the application is properly approved at the time of registration.

STANDARD OF WORK

For a semester the minimum standard of achievement which enables a student to re-enroll without question in the college is eight semester hours credit and ten grade points.

(a) Failure to meet these minimum standards shall automatically exclude the student from subsequent registration except in the case of a beginning freshman. Such freshman may be registered for such load as the Registrar may assign provided the load shall not be less than 9 semester hours nor more than 19 semester hours in a semester. In each such case of re-registration a specific authorization of load shall be entered on record by the Registrar. Students admitted under this provision are automatically placed on probation for the semester. Failure during the probation period to meet the minimum standards makes the student ineligible for re-enrollment the followng semester or term except as provided in (c).

(b) The foregoing rule setting forth automatic exclusion because of failure to meet the minimum standards may be

waived by a permanent committee appointed by the president and authorized to exercise such waiver. The committee at its discretion may waive the rule and authorize the re-registration of persons with credit sufficient to classify them above the freshman year in case such persons fail to meet the minimum standards in one semester.

(c) The committee at its discretion may permit by waiver the re-registration of a person in the freshman year after that person has been re-admitted once and has had a load assigned by the Registrar as provided in (a) above and has failed the second time to meet the minimum standard.

WITHDRAWALS

Occasionally home conditions or some other factor make it necessary for students to withdraw. In such cases the student must see the President and arrange for the withdrawal. Any student who quits school or withdraws without securing the approval of the President may not register again unless the President sees fit to reinstate him.

OFFICIAL SCHEDULE CHANGES

The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

COMMENCEMENT

Commencements are held at the close of the academic year and at the end of the summer school. Students who are candidates for degrees are required to participate in the Commencement exercises unless excused by the President. A student who satisfies the requirements for a degree at times other than at the end of the second semester or the close of the summer school will receive his degree immediately following the completion of the work and will be regarded as a member of the graduating class immediately succeeding the completion of the work.

ALUMNI ASSOCIATION

The purpose of this organization is to promote fellowship among the ever-increasing number of graduates and to stimulate a mutual interest between the institution and her former students.

All members of the Alumni Association are to remain members regardless of the work completed at the time they were accepted into membership. The completion of the requirments for a degree is a prerequisite to membership for all new members.

CHURCH AFFILIATIONS

The institution is not denominational in any sense. Its positive influence, however, is religious and Christian. Students are urged to select a church home in Richmond and to attend the Sunday Schools in the city.

STUDENT ORGANIZATIONS

The student organizations, societies, and clubs at Eastern are varied enough in their activities to include the interests of all the students. While the membership in them is voluntary, all students find it to their advantage to identify themselves with at least one of these activities. Students receive in these extra-curricular activities a type of training which is impossible for them to get in the classroom. The opportunity for social life among the students, along with the professional and intellectual interests, is a valuable feature of the student activities.

Name of Organization	Qualifications for Membership
Departmental Clubs:	
Agricultural Club	Open to students who are majoring or minoring in Agriculture.
Canterbury Club	Open to students who are English majors and first minors and who have a scholastic standing in English of "B" or higher. Membership is by election.
Cercle Francais	Open to all students who have enough facility in spoken French to participate in the activities of the club.
Elementary Council	Open to students who are majoring in Elementary Education and to students who are enrolled for Education 261, 263, or 265.

Home Economics Club	Open to students who are taking a major or a minor in Home Economics. Membership is by election.
Physical Education Club	This club is composed of students who are taking a major or a first minor in Physical Education.
Sigma Tau Pi	Open to students who are enrolled in one or more courses in the Department of Commerce. Membership is by invitation. There is a probation period of nine weeks for all new members.
Science Club	Open to all students majoring or minoring in Science.
Social Science Club	Active membership shall be invitational and limited to majors and minors who have completed eight semester hours in Social Science. Eligibility shall be based upon a general average of 1.5 and a departmental average of 2.0.
World Affairs Club	Membership in this club shall be of two classes—(1) active, and (2) associate. Active membership shall be invitational and limited to the majors and minors in the Department of Geography and Geology. Eligibility is based upon general average of 1.5 and a departmental average of 2.0. Associate membership shall be invitational and is open to all faculty members and students of the college. Associate members shall be non-voting members.
Literary and Dramatic Clubs:	
Alpha Zeta Kappa	Open to all students who are interested in public speaking and debating. Membership is by election.
Little Theatre Club	Open to all students. Membership is by election. Each applicant is required to appear in a "try-out" play before the club members.
Musical Organizations:	
College Band	Open to all students who can play band instruments. The college furnishes many of the larger and rarer instruments to students who can play them. Regular rehearsal is Thursday evening at 7:00 o'clock, with other sectional practices.

Madrigal Club	Open to all women students in the institution. The ability of the student is the basis of selection. Membership is limited to thirty students.
Men's Glee Club	Open to all men students of the institution. The ability of the student is the basis of selection. Membership is limited to thirty-two students.
Messiah Chorus	Open to all students. Rehearsals are held weekly from October 1 until Christmas vacation. The Messiah is presented jointly with the Berea Harmonica Society at Eastern and at Berea College.
Orchestra	Open to all students. New members are admitted only as vacancies occur. Rehearsals are held on Tuesdays and Thursdays at 4:00 P. M. The orchestra provides music for chapel and radio programs, assists in the presentation of the Messiah, and furnishes music on various other occasions.

Professional Clubs:

Caduceus Club	Open to sophomores, juniors and seniors who are doing pre-professional work in medicine, dentistry, and nursing. Membership is by election.

Religious Organizations:

Y. W. C. A. Y. M. C. A.	Open to all students. The activities of these organizations include the sponsoring of regular Sunday evening vesper programs, morning watch programs, Christmas vesper service, various forms of social service work, and social activities.

Miscellaneous Organizations:

"E" Club	Open to all students who have earned letters at Eastern.
Pep Club	This group leads the cheering at the athletic games. Open to all students.
Rural Life Club	Open to all students who are interested in problems of rural life. Membership is by election.

HONORARY FRATERNITIES

Kappa Delta Pi—This is an honorary educational fraternity. The Delta Alpha chapter was organized at Eastern in May, 1935. Membership is by election and is limited to those students who have a general scholastic standing of 1.6, and a standing of 2.0 in education courses. Juniors who are admitted must have completed at least six hours in education and seniors must have completed a minimum of twelve hours.

Pi Omega Pi—This is a national commercial teachers' honorary fraternity. The Alpha Beta chapter was installed at Eastern in February, 1935. The fraternity admits four different types of members: active, associate, alumni, and honorary. Active membership consists of those who are enrolled in college work as bona fide students and who have met the following requirements:

(a) Ten or more semester hours of college credit in commerce.
(b) Five semester hours of college credit in education.
(c) Superior standing in all commercial studies. (The Alpha Beta chapter requires this standing to be at least 2.0.)
(d) At least median standing in all other college subjects.

EXTENSION DIVISION

Through the Extension Division Eastern provides a Bureau of Appointments, correspondence courses, extension class instruction, lectures, and various other types of public school service.

Bureau of Appointments—A Placement Bureau is maintained by the college to assist students and ex-students in obtaining positions and to aid superintendents, principals, and other public school officials to secure the best qualified individuals to fill their vacancies. No charge is made for this service.

Correspondence Courses—Correspondence courses are prepared and conducted by regular members of the faculty and are, in so far as possible, identical with residence courses. For further details see Extension Division bulletin or write Director of Extension Division for additional information.

Extension Classes—Regular members of the faculty conduct extension classes in cities and communities where teachers desire to pursue work in class groups in practically the

same way as they would in residence. The cost of extension-class instruction is reasonable. For further details see Extension Division bulletin or write Director of Extension Division for additional information.

Restrictions on Extension Work—A maximum of thirty-two hours of the required 128 for a Bachelor's degree may be earned by extension.

Extension work shall be defined as all class work offered off the campus and correspondence work.

Not more than twelve semester hours of credit may be earned by extension within a calendar year. A maximum of twelve semester hours of the last thirty-two may be earned by extension. In other words, the candidate for a degree must do twenty semester hours in residence following the completion of ninety-six hours.

The Extension Division Bulletin—The Extension Division Bulletin gives full information concerning correspondence and extension-class instruction and all the facilities of service of this Division. This bulletin may be had upon request.

THE TRAINING SCHOOL

Function—The function of the Training School is two-fold: first, it trains college students in the theory and art of teaching; second, it maintains as nearly as possible an ideal elementary and secondary organization. The Training School is the center of the professional work of the college. It provides opportunities for directed observation by college classes in theory and in professionalized subject-matter courses. It is also the laboratory where student teaching is done. The first consideration in the management of the school is to make of it a good school for the children who attend it. The value of the Training School to the state in the training of teachers is in proportion to the quality of classroom instruction the children receive.

Organization—The organization of the Training School embraces three divisions: the elementary school of six grades, the high school of six grades—both located on the campus—and a one-teacher rural school of eight grades, located on the college farm near the campus. The length of the school year is nine months.

Enrollment Fees—Fees for the privilege of attending the Training School are to be paid by the semester in advance. They are as follows:

Elementary School, grades 1 to 6 inclusive.....$ 4.00 a semester
Junior High School, grades 7, 8, and 9.....$ 6.00 a semester
Senior High School, grades 10, 11, and 12.....$10.00 a semester

Elementary School—This division of the Training School is composed of grades one to six, inclusive. It is located in Cammack Building which was constructed for training school use. It draws its pupils principally from the local community to which it offers special advantages. The enrollment of each grade is limited to thirty pupils.

The Model High School—This division of the Training School is located in University Building. The junior and senior high school grades make one school organization. The periods are one hour in length with the third period each day set aside for extra-curricular activities. A unit method of instruction is followed. The school is accredited as a class A high school by the Southern Association of Secondary Schools and Colleges. Pupils who wish to enter the high school should make application to the Principal or to the Director of the Training School.

Rural School—This school is located on the college farm near the campus. The building in which this school is located is modern and complete. Children attending this school are rural children representing all the eight grades.

Student Teaching—The prospective teacher is inducted into the art of his profession by a gradual approach and after he has shown evidence of preparation for the work. For the first week or ten days the children are studied, classroom activities are carefully observed, and organization of subject matter goes forward. When actual teaching begins with a group of children, the training teacher supervises the work so that the student teacher may develop the skills, techniques, and controls considered essential to good classroom procedure.

Student teachers reserve the eighth period daily in their schedules for conference with the training teacher.

Before college students are assigned to a place in the Training School for student teaching, it is expected that they

shall have sufficient preparation to insure their own progress in the work. The welfare of the children to be taught must also be safeguarded from the ill effects of an inadequately prepared teacher. For these reasons certain prerequisites are adhered to. Before students are permitted to do supervised student teaching they must satisfy the following requirements:

1. **Adequate Preparation**—Sufficient work, including all prerequisite courses, must be completed to insure adequate preparation for student teaching.

2. **Command of Written and Spoken English**—Any college student coming into the Training School with a noticeable deficiency in the use of English will be dropped from student teaching until evidence is shown that this defect has been overcome.

3. **Health**—A certificate showing evidence of good health and a normal physical condition must be secured from the college physician.

4. **Academic Standing**—An average grade of "C" on all courses taken is required for registration in student teaching.

5. **Credits on File**—The applicant for student teaching must be a regularly classified student with all college credits on file in the Registrar's office.

Due to the limited facilities of the Training School, it is necessary to place some limitations upon those who ask for student teaching during the crowded terms.

It is offered during the fall semester to all who are prepared to take it. During the second semester, it is offered to those who are completing the work in this school for a certificate or a degree to be received at the end of that year. During the first summer term, it is offered only to those who have formerly been students in this institution, who have been unable to attend during either of the preceding semesters, and who must have it in order to complete the requirements for a certificate or a degree which they expect to receive at the end of that summer school.

Those who expect to take student teaching during the spring or summer terms should reserve a place by writing to the Director of the Training School.

CERTIFICATES

Information in regard to requirements for certificates will be found in another section of this catalog.

REQUIREMENTS FOR GRADUATION

Requirements for graduation are outlined in detail in another section of this catalog.

DIVISION OF APPLIED ARTS AND SCIENCES

Mr. Moore
Miss Burrier
Mr. Carter
Mr. Deniston
Miss Dix
Miss Ford
Miss Gill
Mr. Gumbert
Mr. Richards

Agriculture

Mr. Carter — Mr. Gumbert

Agriculture 100. General Agriculture. **Two hours.**

Purpose: A course primarily intended for those students who expect to teach agriculture in the seventh and eighth grades.

Topics: This course consists of a broad general study of soils, cereal and forage crops, live stock, poultry and vegetables. Much emphasis is placed on correlation, lesson plans, method and procedure of teaching seventh and eighth grade agriculture. Use is made of some elementary texts, bulletins, and assigned reading.

Agriculture 126. Farm Poultry. **Three hours.**

Purpose: This course is planned to give the teacher the knowledge necessary to initiate the best methods in the establishment, improvement, care, feeding and management of poultry in his community.

Topics: Breeds, poultry house construction, feeds, balanced rations, poultry diseases, egg production, meat production, culling of flock, pests, grading and marketing poultry products.

Agriculture 131. General Horticulture. **Three hours.**

Purpose: The purpose of this course is to acquaint the student with the best methods and practices in the care and management of the farm orchard and vegetable garden.

Topics: Equal time is devoted to a study of fruit and vegetable production. The farm orchard is taken as a basis and laboratory for the study of selection of type of soil, site, grafting and budding, planting, fertilizing, cultivation and general management of the orchard with special work in pruning and spraying. Small fruits also receive some attention. Assigned library references and practical work with hotbeds and cold frames in the production of early vegetables result in a working knowledge of gardening.

Agriculture 211. (Formerly Agriculture 111.) Farm Crops. **Three hours.**

Purpose: This course is designed to give the student a practical knowledge of the best methods in the selection, production and disposition of the cereal and forage crops of the region.

Topics: Cereal and forage crops, crop improvement, storage and marketing, crop rotation, judging grain, testing seeds.

Agriculture 223. Market Milk. **Three hours.**

Purpose: To study the problems that confront producers and distributors of market milk and milk products.

Topics: Market milk, milk as a food, milk in its relation to public health; bacteriology of milk, dairy farm inspection, scoring milk and cream, cost of milk production, milk plants, pasteurization, refrigeration, etc.

Agriculture 224. Dairy Cattle Management. **Three hours.**

Purpose: To bring the student into close contact with the dairying business.

Topics: Dairy breeds, judging, breeding, feeding, calf raising, pedigrees, advanced registry, dairymen's association, dairy barn construction, equipment, etc.

Agriculture 228. Meat Production. **Three hours.**

Purpose: To teach the best practices and principles involved in the economical production of beef cattle, sheep and swine on the farm.

Topics: Markets and market requirements. Feeding and handling the herd or flock in the breeding season; the management and feeding of the breeding stock during and following gestation; forage crops and methods of feeding on forage; rations and methods of fattening. Considerable time is spent in a study of breeds, judging, and in the treatment and prevention of the most common ailments. Frequent trips are made to study the practices of successful farmers.

Agriculture 251. (Formerly 151.) Farm Engineering. **Two hours.**

Purpose: This is a laboratory course, the purpose of which is to acquaint the student with the problems of engineering on the farm.

Topics: Farm machines, operation and care of farm machinery, farm structure, use of concrete on the farm, and the principles of drainage.

Agriculture 315. (Formerly Agriculture 115 and 215.) Soils. **Three hours.**

Prerequisite: Chemistry 111.

Purpose: To give the student a thorough knowledge of soil physics and soil management, and to summarize the best principles and methods of soil improvement and fertility.

Topics: A study of the properties and management of soils; harrowing and cultivation; organic matter, bacterial action and optimum conditions for growth of plants; the origin, the weathering and types of soils; plant foods; crop requirements and fertilizers; rotation of crops as means of soil preservation.

Agriculture 321. (Formerly Agriculture 121 and 221.) Feed and Feeding. **Three hours.**

Prerequisite; Chemistry 111.

Purpose: To give the student a thorough knowledge of the cost, composition and comparative feeding values of feeds; to point out the uses of the food nutrients and the parts they play in growth, maintenance and production of the product; to study the feed requirements of the various farm animals and how to balance rations to suit their needs.

Topics: Digestive systems of farm animals; digestion; composition and digestibility of various feeds; origin and history of scientific feeding; methods and principles of calculating and balancing rations; home grown feeds, such as corn, oats, wheat, rye, barley, and their by-products, also roughages, such as silage, straw, corn fodder, grass hays and the important legumes with the object to balance rations at least cost.

Agriculture 345. Farm Management and Farm Accounts. **Three hours.**

Purpose: To give the student practice in applying the fundamental principles and knowledge of good business methods in farm enterprises; to enable the student to recognize symptoms, diagnose the ailments of unsuccessful farms and prescribe remedies.

Topics: Personal characteristics desirable in farmers, profits, cost of living, types of farming, maintaining soil fertility, live stock problems, farm labor, farm rents, farm equipment, farm layout, farm inventories, cost accounts, etc.

Agriculture 441. (Formerly Agriculture 241 and 341.) Agricultural Economics. **Three hours.**

Purpose: The purpose of this course is to give the student an idea of the economics which may be introduced into the agricultural industry and of the different elements composing the resources of the farmer.

Topics: Farm operation, farm equipment, the size of the farms, farm labor and wages, farm credit, insurance needs of the farmer, tenant farming, rent and profit, marketing, farm products, crop estimates and forecasts, price fixing and the cost of farm products, the social side of farm life, the future of the farmer, etc.

Practicums: Practicums will be available to a limited number of students who have the necessary prerequisites. In order to enroll for a practicum the student must first have the sanction of the instructor in charge of the work. As a general rule, a practicum carries a credit of one hour. Students who already have a standard load will not be allowed to carry practicums for credit without approval of the Registrar.

Commerce

Mr. Moore Miss Ford Miss Gill Mr. Richards

Commerce 124. Economic History of Europe. **Three hours.** See Economics 124.

Commerce 126. (Formerly Commerce 121.) Business Mathematics I. **Two hours.**

Purpose: To prepare the student for Commerce 219, and to provide the student with sufficient information to enable him to teach business arithmetic in the high school.

Topics: Rapid calculation in the fundamental processes; drawings and graphs; percentage; buying and selling merchandise; commercial discounts; recording purchases and sales; paying for goods; collecting bills; accounts; taking inventory interest; discounting notes and other commercial papers; wages and payrolls; postage, freight, and express rates; property insurance; taxation.

Commerce 127. Business Mathematics II. **Two hours.**

Purpose: To give the student sufficient background in business mathematics to enable him to pursue advanced accounting, investments, insurance, etc.

Topics: A rapid review of the topics covered in Commerce 126, bank discount, true discount and present value, exact interest, logarithms, equation of accounts, domestic and foreign exchange, series, annuities, bond valuation, business graphs, cumulative annuities, cumulative sinking funds, cumulative amortization plans, building and loan association calculations, industrial loans, etc.

Commerce 131. Penmanship. **No credit.** All students majoring in commerce unless excused by the Head of the Department are required to take this course.

Purpose: To teach the principles of good handwriting, to afford practice in executing these principles, and to develop an appreciation of good handwriting.

Commerce 151. Beginning Typewriting. **Two hours.** (Credit on this course will be recorded when Commerce 152 has been completed.) Fee, $1.00.

Purpose: To develop proper technique in typewriting, and to learn to arrange simple material in attractive form.

Topics: Mechanics of the typewriter, the keyboard, word drills, sentence drills, paragraph drills, styles of letters, attractive arrangement of materials.

Commerce 152. Intermediate Typewriting. **Two hours.** Fee, $1.00.

Purpose: To attain speed with accuracy in working out practical problems in typewriting.

Topics: Drill on material which will develop speed and accuracy; practice in the writing of business letters, simple manuscripts, and simple tabulations.

Commerce 215. (Formerly Commerce 115.) Beginning Shorthand. **Three hours.**

Purpose: To master the principles of Gregg shorthand and to develop a fluent and legible style of writing.

Topics: The principles of Gregg shorthand as outlined in the Gregg Manual; shorthand penmanship drills; supplementary reading; daily dictation including words of high frequency, sentences, and letters; vocabulary tests; transcription.

Commerce 216. (Formerly Commerce 116.) Advanced Shorthand. **Three hours.**

Prerequisite: Commerce 215.

Purpose: To develop speed in taking dictation and in transcribing.

Topics: A review of the Gregg shorthand principles; supplementary reading; dictation and transcription of literary articles and various types of letters; vocabulary and transcription tests.

Commerce 219. (Formerly Commerce 122.) Principles of Accounting. **Four hours.**

Prerequisite: Commerce 126.

Purpose: To prepare the student to teach the subject or to do practical accounting and bookkeeping work; to furnish a background for work in business administration.

Topics: The balance sheet; the statement of profit and loss; accounts and the ledger; proprietorship accounts; bookkeeping procedures; adjusting and closing entries; books of original entry; controlling accounts; interest and discount; valuation accounts; accrued and deferred items; business practice and procedure; the work sheet. A laboratory set of books is kept for the sole proprietorship.

Commerce 220. Principles of Accounting. **Two hours.**

Prerequisite: Commerce 219.

Purpose: To further prepare the student to teach the subject or to do practical accounting and bookkeeping work, and to furnish a broader background for work in business administration.

Topics: A more thorough consideration of controlling accounts and practice in handling them in a laboratory set; the characteristics of a partnership; relation of partnership to accounting; formation of a partnership; division of profits; admission of a new partner; retirement of a partner; dissolution of a partnership. A laboratory set of books is kept for the partnership form of business organization. Vouchers are provided to make the laboratory work as practicable as possible.

Commerce 230. (Formerly Commerce 125.) Principles of Economics. **Three hours.** See Economics 230.

Commerce 231. (Formerly Commerce 222.) Principles of Applied Economics. **Three hours.** See Economics 231.

Commerce 253. Advanced Typewriting. **Two hours.** Fee, $1.00.

Purpose: To attain a degree of proficiency sufficient to enable one to do professional typewriting or to teach typewriting; to familiarize students with the best techniques of teaching typewriting.

Topics: Drill on material which will develop speed and accuracy; manuscripts, tabulations, legal and other business forms; teaching technique.

Commerce 301. (Formerly Commerce 201.) Business English. **Three hours.**

Prerequisites: English 101 and English 102.

Purpose: To develop skill in the use of clear, concise, and forceful English in the writing of business letters.

Topics: The essential qualities of business writing; the sales letter; appeals to special classes; follow-up letters; inquiries, orders, and responses; credit letters; collection letters; adjustment letters; letters of application; business reports; style studies.

Commerce 303. (Formerly Commerce 203.) Secretarial Practice. **Three hours.**

Prerequisites: Commerce 151, 152, 253, 215, 216.

Purpose: To develop speed in transcribing, and to familiarize the student with office procedure.

Topics: Advanced dictation and transcription including a study of vocabularies of leading lines of business; effective office arrangement and display of typewriting; duties of a secretary; dress, deportment, and ethics; use and care of office machines; selection of office supplies; filing; use of office reference books; reporting speeches and meetings; actual stenographic experience.

Commerce 309. (Formerly Commerce 209.) Business Organization. **Three hours.**

Prerequisite: Commerce 230.

Purpose: To acquaint the student with the different types of business organization.

Topics: Classes of business organization, their evolution, and the tests of efficiency; individual entrepreneur organization; partnership; corporation; joint-stock company; business trusts; simple agreements and price combinations; pools; combination trusts; community-of-interest organization; holding company; amalgamations; mergers; promotion; underwriting; stock exchanges; reorganizations and receiverships; legislation.

Commerce 310. (Formerly Commerce 210 and 321.) American Economic History. **Three hours.** See Economics 310.

Commerce 322. (Formerly Commerce 221.) Principles of Accounting. **Three hours.**

Prerequisites: Commerce 219 and 220.

Purpose: To further prepare the student to teach the subject or to do practical accounting and bookkeeping work, and to furnish the

student a more comprehensive background for work in business administration.

Topics: Nature and characteristics of the corporation; accounts and records peculiar to a corporation; corporate accounting subsequent to organization; the voucher system; accounting for manufacturing; accounting for departments and branches; non-profit organizations; accounting for creditor control; accounting and management. A laboratory set of books is kept for the corporate form of business organization.

Commerce 324. (Formerly Commerce 224.) Money and Banking. **Three hours.** See Economics 324.

Commerce 325. Principles of Accounting—Advanced. **Three hours.**

Prerequisites: Commerce 219, 220, 322.

Purpose: To further prepare students who expect to teach accounting and bookkeeping, and to give a broader knowledge of the subject to those interested in business administration. The course is also planned for those desiring to prepare themselves for public or private accounting work.

Topics: A detailed study of financial statements; the use of working papers involving departmental accounting and distribution of expenses; operating statements; various problems that arise in partnership accounting; specific problems that arise in corporation accounting. The principles discussed in class will be illustrated with problems. No set will be worked.

Commerce 326. Principles of Accounting—Advanced. **Three hours.**

Prerequisites: Commerce 219, 220, 322.

Purpose This course is a continuation of Commerce 325.

Topics: Profits; surplus; dividends; statement of new assets and their application; statement of affairs; statement of deficiency; realization and liquidation statement; depreciation; reserves; valuation accounts; earned surplus appropriations; funds and related reserves and earned surplus appropriations; good will; secret reserves. The principles discussed in class will be illustrated with problems. No set will be worked.

Commerce 327. Cost Accounting. **Three hours.**

Prerequisites: Commerce 219, 220, 322.

Purpose: This course is of value to those who desire to teach the subject or who desire accounting work beyond the elementary field. The person interested in business administration or who plans to do public or private accounting work will find the course practical for his needs.

Topics: Classifications of costs; process and specific order; use of cost records; perpetual inventories; materials; labor costs; manufacturing expense; distribution of service department costs; distribu-

tion of manufacturing expense to production; the cost to make and sell; estimating cost systems; establishment of standard costs; the uses of standard costs; some legal phases of cost accounting. A set of books dealing with cost accounting will be kept.

Commerce 328. Income Tax Accounting. **Three hours.**

Prerequisites: Commerce 219, 220, 322.

Purpose: To give the student an understanding of some of the underlying principles of Federal and State income tax laws and the methods of filing income tax returns.

Topics: Income tax legislation—Federal and State; returns for individuals; exempt income of individuals; deductions allowed individuals; computation of individual taxes; returns for estates and trusts; returns for partnerships; returns for corporations; accounting procedure; administrative procedure; the capital stock tax; the excess profits tax; the estate tax; the gift tax; excise taxes. Students will have experience filling out income tax return forms.

Commerce 341. (Formerly Commerce 241.) Salesmanship. **Three hours.**

Purpose: To give information essential to those students who desire to teach the subject and to those who expect to do actual selling.

Topics: The art of selling, the motive behind all buying, the customer's mental journey, attitudes of buyer and salesman, preparation of the selling talk, the pre-approach, the interview, arousing interest, creating desire, answering objections, meeting excuses, diplomacy of the close, types of customers.

Commerce 342. (Formerly Commerce 242.) Advertising. **Three hours.**

Purpose: To acquaint the student with some of the principles of advertising and to present certain very essential phases of procedure to be followed in advertising work.

Topics: The specific purpose of advertising, developing the copy, slogans, trade-marks, layouts, engraving, scheduling of advertisements in newspapers and magazines, direct mail advertising, outdoor advertising, dealer display advertising, packages, radio advertising, determining the value and results of advertising.

Commerce 370. Contemporary Social and Economic Problems. **One hour.** Required of all juniors majoring in Commerce.

Commerce 371. Contemporary Social and Economic Problems. **One hour.** A continuation of Commerce 370. Required of all juniors majoring in Commerce.

Commerce 405. (Formerly Commerce 305.) Business Law. **Three hours.**

Purpose: The purpose of this course is to familiarize the student

with the principles of law which affect his everyday business relationships, and to enable him to teach the subject in high school or college.

Topics: Law in general, kinds of law, persons, torts, contracts. agency, personal property, real property.

Commerce 406. (Formerly Commerce 306.) Business Law. **Three hours.**

Purpose: The purpose of this course is to familiarize the student with further principles of law which affect his everyday business relationships, and to enable him to teach the subject in high school and college.

Topics: Market transactions; bailments; sales and contracts to sell; practices prejudicial to a competitor; practices prejudicial to the public; legislative regulation of market practice; bills, notes, and checks; stocks and bonds; liens, mortgages; bills of lading and warehouse receipts; contracts of guaranty and suretyship; powers of creditors; privileges of debtors.

Commerce 425. (Formerly Commerce 325.) Accounting Problems. **Two hours.**

Prerequisites: Commerce 219, 220, 322.

Purpose: To acquaint the student with problems met in various fields of accounting and to introduce the student to some C. P. A. problems.

Topics: Special types of statements; revision and correction of financial statements; corporate bonds and sinking funds; amalgamations and mergers of corporations; holding companies and consolidated balance sheets; adjustments and analysis of surplus; consignment and joint ventures; selling agencies; fire loss and insurance adjustments; installment sales. No set will be kept. The work will be in the nature of problems.

Commerce 430. (Formerly Commerce 330.) Public Finance. **Three hours.** See Economics 430.

Commerce 440. (Formerly Commerce 340.) Investments. **Three hours.**

Prerequisite: Commerce 230.

Purpose: To give the student information concerning the fundamental principles of sound investments, to help the average person to work out a plan for his investments, and to teach the importance of thrift and saving.

Topics: The importance of capital in present day economic society, classification of securities, analyses of securities, possibilities of investment in different classes of securities, financial institutions, the mechanics of investments, the effect of taxation on investment policies, investment and the business cycle, business forecasting, and the determination of an investment policy.

Commerce 443. (Formerly Commerce 343.) Marketing. **Three hours.**

Prerequisite: Commerce 230.

Purpose: To provide the student with information concerning the economics of distribution and distributive agencies and their functions.

Topics: Consumers' buying motives, marketing functions and institutions, selling direct to consumer, earlier and simpler types of retail institutions, department stores, mail-order houses, chain stores, agricultural wholesale markets, middlemen of the city agricultural markets, classes and types of wholesalers, raw materials, cooperative marketing, speculation, prices and some price policies, brands and brand policies, ethical aspects of marketing.

Commerce 461a. The Teaching of Stenography. **Three hours.**

Prerequisites: Commerce 151, 152, 215, and 216.

Purpose: (a) To give instruction in the teaching of stenography by the direct method; (b) to give practice in selecting and organizing materials suitable for use with the direct method of instruction; (c) to analyze and evaluate the direct method applied to typewriting instruction by observation of instruction.

Topics: Objectives in the teaching of shorthand and typewriting; methods of teaching shorthand and typewriting; review of literature concerning the direct method of teaching shorthand and typewriting; selection and organization of teaching materials; motivation and methods of study; types of examinations; classroom equipment.

Commerce 461b. Methods of Teaching Bookkeeping, Accounting and Junior Business Training. **Two hours.**

Prerequisites: Open to students who are taking a major or minor in Commerce and who have completed Commerce 219, 220, 322, or the equivalent.

Purpose: To give the student various phases of classroom procedure and methods in teaching bookkeeping, accounting, and junior business training.

Topics: Objectives in giving bookkeeping, accounting, and junior business training courses; textbooks suitable for use; supplementary material; methods of approach; how to teach certain phases of our financial life, communication, travel and transportation, buying and selling; the work at the end of a fiscal period for bookkeepers and accountants, including: accrued and deferred items, adjusting entries, working sheet, financial statements, closing entries; suitable examinations.

Commerce 470. (Formerly Commerce 570.) Seminar. **One hour.** Required of all seniors majoring in Commerce.

Commerce 471. (Formerly Commerce 571.) Seminar. **One hour** Required of all seniors majoring in Commerce.

Home Economics

Miss Dix Miss Burrier

Home Economics 101. (Formerly Home Economics 110.) Textiles. **Two hours.**

Purpose: To acquaint the student with standard fabrics on the market suitable for clothing and house furnishings; to give the student a knowledge of the proper treatments in the laundering of the various classes of textile fibers; to develop in the student an appreciation of good textile fabrics; and to develop an understanding of the student's responsibility as a consumer and a teacher.

Topics: Microscopic study of fibers; simple household tests for the determination of fiber content; reaction of acids and alkalies on the various fibers; study of the manufacture of fibers and fabrics, identifying materials by commercial names; economic and social aspects of textile purchase; removal of stains; laundering.

Home Economics 102. (Formerly Home Economics 103.) Source, Selection and Cost of Foods. **Two hours.**

Purpose: To familiarize the student with marketing problems, and to teach the kinds and grades of foods.

Topics: The processes that foods undergo from the producer to the consumer; how to purchase; where to purchase; food budgets; variety, source, selection, and comparative cost of foods used in the home.

Home Economics 155. Costume Design. **Two hours.**

Purpose: The course is planned to give a general knowledge of the principles of design as they relate to the costume. This course is for the special art student and the home economics major.

Topics: Color, form, line, texture, history of costume, projects for the secondary school, costuming plays; technical problems of the representation of costumes in water color, pen and ink, crayon and tempers; appreciation of the work of costume designers.

Home Economics 203. (Formerly Home Economics 111.) Garment Making. **Three hours.**

Purpose: This course is designed to acquaint the student with the fundamentals of garment construction. Emphasis is placed on both hand and machine sewing. It also aims to develop an appreciation for artistic clothing in order that the individual may more wisely select ready-made garments.

Topics: Study of the sewing machine and attachments; making of simple patterns; selection of materials suitable for simple wash dress, kimona or gown; study of materials, colors and designs suitable for various undergarments; care and repair of clothing.

Home Economics 204. (Formerly Home Economics 101.) Nutrition and Food Preparation. **Three hours.** Laboratory fee, $1.50.

Purpose: To familiarize the student with the general composition and the place in the diet of foods; to teach the fundamental principles of preparation of foods.

Topics: Choice, preparation and serving of foods suitable for breakfasts, luncheons, dinners, suppers, and teas. Each series of units of work is completed with the planning, preparing and serving of the meal of that unit.

Home Economics 205. (Formerly Home Economics 201.) Meal Planning, Preparation and Serving. **Three hours.** Laboratory fee, $5.00. (During a semester each student enrolled for this class receives 25 meals from this fee.)

Prerequisite: Home Economics 204 or its equivalent.

Purpose: To enable the student to plan, prepare and serve well-balanced home meals at varying costs; to familiarize students with different types of table service; and to teach table etiquette.

Topics: Principles of well-balanced meals; preparation and serving of well-planned meals with different types of services; study of the respective duties of host, hostess, guests, members of the family, and waitresses; computation of costs of various types of meals; table decorations and accessories for various occasions; care of dining-room equipment.

Home Economics 206. (Formerly Home Economics 112 and 212.) Dressmaking. **Two hours.**

Prerequisite: Home Economics 203 or equivalent.

Purpose: The purpose of this course is to let the student acquire knowledge of appropriate and becoming clothing; to aid the student in interpreting commercial patterns; to create in her a confidence in cutting, fitting and altering commercial patterns to suit an individual; to teach the economic values of renovation and remodeling through a practical problem.

Topics: Study of line, color and design in materials suitable to different types of figures; alterations of commercial patterns; special treatments in cutting, fitting, construction and finishing of dresses of cotton, linen, and silk.

Home Economics 207. (Formerly Home Economics 113 and 213.) Care and Selection of the Wardrobe. **Two hours.** Not open to Home Economics majors.

Purpose: This course is planned for students who wish to make an intelligent study of the wardrobe and know more about the selection of ready-made clothing, but do not wish to sew.

Topics: The clothing budget; planning the wardrobe with special emphasis on kinds, numbers, suitability of garments and accessories; purchasing habits; a study of cost and method of caring for clothing.

Home Economics 209. Home and Social Problems for Women. **Two hours.**

Purpose: To create a desire for higher home and social standards, thereby preparing women for efficient home-making.

Topics: Nutrition, meal planning and home cookery; marketing; furniture selection and arrangement; clothing selection; family relations; home nursing; child care; social etiquette.

Home Economics 222. Interior Decoration. **Two hours.**

Purpose: A general survey course for the student who desires a knowledge of the principles of design in relation to interiors. Special emphasis is placed on the house and its design.

Topics: Architecture; the house and its setting, types of houses; exterior and interior architecture; ornament. Study of period styles in furniture and furnishings. Treatment of interiors—color, form, line, texture in furniture and furnishings in relation to backgrounds.

Home Economics 231. Home Nursing. **Two hours.** See Health 231.

Home Economics 301. (Formerly Home Economics 224.) Household Equipment. **Two hours.**

Purpose: To familiarize girls with various types of modern household furnishings; to appreciate the importance of standardization; to enable them to purchase equipment of various types; to help them realize the value of labor-saving devices in the home.

Topics: Laundry and kitchen furnishings, electric and non-electric; cleaning equipment; bedding; linens; china; glassware; silver; floor coverings; wall coverings; furniture.

Home Economics 302. (Formerly Home Economics 102 and 202.) Advanced Cookery. **Three hours.** Laboratory fee $3.00.

Prerequisite: Home Economics 204.

Purpose: To teach the scientific principles of cookery; to develop skill in cookery.

Topics: Sugar cookery, fruits and vegetables, jelly, gelatin, meat, emulsions, milk, egg cookery, wheat flour and bread, batters and doughs, fats and oils.

Home Economics 303. (Formerly Home Economics 225.) The Family. **Two hours.**

Purpose: To study the family as an organization considering it from an economic and social standpoint.

Topics: Psychological factors which go to make happy family life, place of children in the family, economic independence of women, homemaking as a profession, distribution of the family income.

Home Economics 305. (Formerly Home Economics 316.) Tailoring. **Two hours.**

Prerequisite: Home Economics 203 or its equivalent.

Purpose: The ultimate aim of this course is to give prospective teachers experience in the handling of woolen materials and to acquaint them with the principles of tailoring.

Topics: Cutting, fitting, constructing and finishing a tailored dress for an adult and a coat for either an adult or a child.

Home Economics 306. Advanced Nutrition. **Three hours.**

Prerequisite: Chemistry 220.

Purpose: To give the student fundamental knowledge of the food nutrients and the function of each to the body.

Topics: Digestion and absorption of nutrients; food values of common food stuffs; nutrition work in the field.

Home Economics 401. (Formerly Home Economics 301.) Dietetics. **Three hours.**

Prerequisites: Home Economics 204, 205, Chemistry 313 and Biology 481 or registration in Biology 481.

Purpose: To give students an opportunity to know the essentials of an adequate diet and the nutritive value of common foods; to apply the fundamental principles of human nutrition to the feeding of individuals under various physiological, economic and social conditions.

Topics: Composition of common foods, requirements of the body under different living conditions, dietary problems, prevention of diseases through the diet.

Home Economics 402. (Formerly Home Economics 331.) Child Development. **Three hours.**

Prerequisites: Education 111, Education 314.

Purpose: To teach the care necessary for the physical, mental, emotional, and social development of the child from infancy through adolescence.

Topics: Prenatal care of the infant; physical care of the child; standards of mental development, and factors affecting these; standards of emotional stability; training for social normality.

Home Economics 403. (Formerly Home Economics 321.) Home Management. **Four hours.**

Prerequisites: Home Economics 102, 204, 205 and junior or senior standing with a minimum of sixteen hours in Home Economics.

Students must see the head of the Home Economics department for appointment to live in the Home Management House. Reservations should be made several weeks prior to the beginning of the semester.

Home Economics 455. Advanced Costume Design. **Two hours.**

Prerequisite: Home Economics 155.

Purpose: To acquaint the student with the influence of historic costume on modern dress and to acquaint them with the work of modern dress designers.

Topics: History of costume; draping and designing.

Industrial Arts

Mr. Deniston Mr. Whalin

Industrial Arts 100. General Shop. **Three hours.**

Purpose: To acquaint the student with different fields of industry and aid him in the upkeep of various appliances in his home and the community.

Topics: The work will be presented from the following units: Drawing, woodworking, metalworking, finishing, plumbing, electrical, tool reconditioning, and exploratory problems.

Industrial Arts 141. Elementary Cabinet Making. **Three hours.**

Purpose: To study furniture making as it may be taught to high school and vocational classes; to consider the organization and teaching of such work in the schools.

Topics: A study of the common hand tools, various kinds of woods, and simple machine operation. While the work is largely individual, there will be an opportunity for the class as a whole to receive instruction on details of construction, gluing, scraping, sanding, finishing, upholstering, and costs of materials.

Industrial Arts 191. Elementary Mechanical Drawing. **Three hours.**

Purpose: Given as the foundation course for machine and architectural drawing.

Topics: This course is for students who have never studied any phase of mechanical drawing. A time limit is set upon each drawing suitable for the average student. The work covers the study of lettering, drafting room conventions, inking, tracing and blueprinting. Free hand sketches of problems are given to the student from which working drawings are made.

Industrial Arts 220. Industrial Arts for Leisure. **Two hours.**

Purpose: Designed primarily for the homecrafter.

Topics: A course in handwork of elementary nature, especially adapted to the needs of the homecrafter and elementary teacher covering a type of work that may be carried on with very little special equipment.

Industrial Arts 222. Primary Handicraft. **Two hours.**

Purpose: A course dealing with the typical forms of industrial arts applicable to the conditions in the primary grades.

Topics: A study of subject matter, methods, and the use of materials involving lectures; readings, reports, discussions, observations and laboratory work.

Industrial Arts 233. Industrial Arts Design. **Two hours.**

Prerequisite: Industrial Arts 191 or Art 161.

Purpose: To give the student a working knowledge of applied industrial design; to enable the student to select and enjoy good commercial design.

Topics: The fundamental principles of constructive, decorative and pictorial art are studied. The problems given involve the practical application of these principles to the various articles made in other shop courses. Actual classroom work is done in designing and rendering with pencil, pen, ink and color.

Industrial Arts 242. Intermediate Cabinet Making and Wood Turning. **Two hours.**

Prerequisites: Industrial Arts 141 and Industrial Arts 191.

Purpose: To give the student additional cabinet making practice using turned work.

Topics: Selection of problems, practice work on wood lathe, making of turned elements, and assembling of projects. Attention will be given to the sharpening of tools, their care, and the finishing of projects.

Industrial Arts 249. Wood Finishing and Decoration. **Two hours.**

Prerequisite: Industrial Arts 141.

Purpose: To familiarize the student with the different methods of finishing and decorating.

Topics: The work offered in this course covers the making of a series of panels showing the methods and value of the different types of finishes. In addition students are given practical work in painting, interior finishing, and the refinishing of furniture. Lectures will be given upon the different materials used.

Industrial Arts 280. (Formerly Industrial Arts 281.) General Metal Working. **Two hours.**

Purpose: To acquaint the student with the various processes of working with some of the common metals.

Topics: A study of the different kinds of metals, their uses, tempering and finishing. Work in bending, twisting, chipping, filing, drilling, riveting, soldering, and forging will be attempted.

Industrial Arts 290. House Planning. **Two hours.**

Purpose: To teach students how to originate and change simple house plans.

Topics: The student will make a study of various shaped lots and houses suitable for them; floor plans; house construction; and typical styles of architecture.

Industrial Arts 291. Projection Drawing. **Three hours.**

Not for students who have had Industrial Arts 191.

Purpose: To acquaint the student with the theory of orthographic projection.

Topics: Points, lines, planes, views, intersections, developments, and some mechanical perspective will be studied.

Industrial Arts 292. (Formerly Industrial Arts 392.) Elementary Machine Drawing. **Two hours.**

Prerequisite: Industrial Arts 191.

Purpose: To teach technique, speed, and accuracy in the making of detailed drawings, assembly drawings in accordance with standard drafting room conventions.

Topics: A study is made of the principal forms of bolts, screws, threads, nuts and conventions. The student secures his problem from perspective with dimensions, tabular data, and form sketches made from actual machine parts. Detail drawings in sections, assembly drawings from details, and detail from assembly drawing will constitute the main body of this course.

Industrial Arts 299. Lettering. **One hour.**

Purpose: Given to acquaint students with simple methods of lettering suitable for school use.

Topics: The work begins with thin line, single stroke letters, followed by various alphabets of wide line filled in, and ornamental types. Initial letters and monograms are designed. The lettering of school posters and signs receives special attention.

Industrial Arts 343. Advanced Cabinet Making and Mill Work. **Two hours.**

Prerequisite: Industrial Arts 242.

Purpose: This course is provided for the purpose of instruction and practice in the care and use of woodworking mill tools and machinery and in methods of preventing accidents in operation.

Topics: Practical work consists of: making mill bill; figuring lumber bill; selection of material; cutting stock; face marking; laying out stock; machining stock and necessary bench work. Related information will be given concerning drying and care of lumber, finishing of products; proportioning of joints, different ways of doing work, trade terms, and order in which to give dimensions.

Industrial Arts 361. Organization and Administration of Industrial Arts. **Two hours.**

Prerequisite: Junior standing.

Purpose: To provide the teachers and administrators with a background and information concerning the organization, administration, and supervision of industrial arts.

Topics: Analysis of the administrative officer, organization, instructional material, tests and measurements, professional reading, and the supervision of instruction.

Industrial Arts 365. Guidance. **Two hours.** See Education 365.

Industrial Arts 401. (Formerly Industrial Arts 201 and 301.) Problems in Industrial Arts. **One or two hours.** Approval of instructor.

Prerequisite: To be decided by the instructor.

Purpose: Offered to teachers wishing to make a special study of some phase of the work or to make projects of an original design.

Topics: The nature of the work will be decided upon by the student and instructor.

Industrial Arts 444. Machine Woodworking. **Two hours.**

Prerequisite: Industrial Arts 343.

Purpose: To acquaint students with power machinery and production method.

Topics: In this course emphasis is placed on practical work with machinery. The shop is equipped with modern woodworking machinery and glue facilities. The shop is organized as a producing factory with a cost system. Instruction is given through demonstrations and practical work. Students are taught the care and repair of the shop machinery.

Industrial Arts 466. (Formerly Industrial Arts 366.) Teaching of Industrial Arts. **Two hours.**

Prerequisite: Senior standing.

Purpose: Given as an informational course to students wishing to teach manual training.

Topics: The problem of teaching from the standpoint of industrial arts organization of subject matter; methods of presentation; organization and class management; types of lessons; lesson plans; demonstrations, testing and system of grading.

Industrial Arts 496. Advanced Architectural Drawing. **Two hours.**

Prerequisite: Industrial Arts 394.

Purpose: Given as a final test of student ability in architectural work.

Topics: Student, with the instructor's approval, will select a project and make a suitable esquisse and rendu of same.

Library Science

Miss Floyd Miss Bennett Mrs. Whitehead

Library Science 166. Library Orientation. **One hour.**

Purpose: To give the student a working knowledge of the library in order to be able to use it most intelligently and effectively.

Topics: The course includes discussions of the card catalog, library plans, principles of classification, mechanical make-up of the books, reference books, indexes, bibliographies, and printed aids in book selections.

DIVISION OF FINE ARTS

Mr. Van Peursem	Miss Gibson	Miss Sams
Miss Campbell	Mr. Kinzer	Mr. Stone
Miss Fowler	Miss Mebane	Miss Telford

Art

Miss Fowler Miss Gibson Miss Mebane

Art 117. (Formerly Art 115 and 116.) Elementary Drawing and Design. **Four hours.**

Purpose: Development of technical skill and creative ability through fundamental training in the use of line, form, tone and color. A beginning course of general appeal, also an essential foundation course for the special art student and the home economics major.

Topics: Representation of simple objects, plants, birds, animals, the human head and figure. Elementary study of perspective, light, and shade composition, color, design, pencil and pen drawing. Mediums employed include pencil, charcoal, crayon, water-color, clay, pen and ink.

Art 155. (Formerly Art 355.) Costume Design. **Two hours.**

Purpose: The course is planned to give a general knowledge of the principles of design as they relate to the costume. This course is for the special art student and the home economics major.

Topics: Color, form, line, texture, history of costume, projects for the secondary school, costuming plays; technical problems of the representation of costumes in water color, pen and ink, crayon and tempers; appreciation of the work of costume designers.

Art 161. Public School Art. **Two hours.** Fee, $2.00.

Purpose: A course for the grade teacher who wishes to become more efficient in the teaching of lettering, design, color, representation, construction and appreciation in the elementary school. Units of work are based on the minimum content essentials, integrating art with the subject matter of the curriculum.

Topics: Problems are presented to develop skill in representation—drawing of the human figure, animals, birds, plants and constructed objects; color, design; lettering; bookmaking; appreciation.

Art 200. (Formerly Art 190.) Appreciation of Art. **Two hours.**

Purpose: Establishment of a basis for judgment and good taste through a survey of the development of architecture, sculpture, painting, design, and the applied arts, with emphasis placed upon the analysis of selected examples.

Topics: Architecture, sculpture, painting, the graphic arts, printing and advertising art, industrial arts, color, design, dress, the theatre, community art, art in the home.

Art 215. Color Theory. **One hour.**

Purpose: Development of ability to use color scientifically and to experience intelligent enjoyment of its effects. A course of general interest, especially valuable to the special art student and the student of dramatic arts.

Topics: The hues of the spectrum, their external causes, their appearance under different conditions of illumination, the different qualities of each which results from the use of various materials and methods of treatment, the use of typical color combinations, study of so-called systems of color.

Art 217. (Formerly Art 216 and 225.) Lettering and Poster Design. **Two hours.**

Purpose: Development of appreciation of good typography, and good design in lettering and posters. Development of the ability to apply art principles in the production of hand lettering and effective posters.

Topics: The fundamental styles of lettering, their origin and development, their possibilities for use and adaptation. Problems in spacing and page arrangement, including the making of monograms, notices, show cards. Application of advertising principles to the making of simple posters.

Art 222. Interior Decoration. **Two hours.**

Purpose: A general survey course for the student who desires a knowledge of the principles of design in relation to interiors. Special emphasis is placed on the house and its design.

Topics: Architecture; the house and its setting, types of houses; exterior and interior architecture; ornament. Study of period styles in furniture and furnishings. Treatment of interiors—color, form, line, texture in furniture and furnishings in relation to backgrounds.

Art 315. Drawing, Painting, and Composition. **Three hours.**

Prerequisite: Art 117 or equivalent.

Purpose: Development of technical skill and creative ability.

Topics: Drawing and painting in charcoal, crayon, chalk, oil and water color. Study of still life, outdoor sketching, perspective, composition.

Art 316. Drawing and Modeling. **Two hours.**

Prerequisite: Art 117 or equivalent.

Purpose: Development of graphic ability.

Topics: Drawing and modeling from the cast of head and figure; figure sketching and composition.

Art 361. (Formerly Art 261.) Art Education in the Elementary and Secondary School. **Three hours.**

Prerequisite: Art 161 or 117 or 217 or equivalent.

Purpose: A course for teachers who wish a general knowledge of present day theories and practices of art education in the elementary and secondary school.

Topics: The course of study, minimum content essentials, methods, standard of attainment, tests and measurements and equipment.

Art 372. Applied Design. **Three hours.** Fee, $2.00.

Prerequisite: Industrial Arts 140 or 222.

Purpose: To develop through the use of materials and processes and through a study of fine examples of crafts an appreciation of good craftsmanship.

Topics: Application of design made to stenciling, linoleum block printing, batik, leather tooling, tie-dying, soap carving, bookmaking.

Art 390. (Formerly Art 290.) The History of Art. **Three hours.**

Purpose: To provide the student with a basic understanding of the development of the plastic arts.

Topics: An introduction to the study of the history of architecture, sculpture, painting, and minor arts of all nations; prints and slides are used for illustrative purposes.

Art 475. (Formerly Art 375.) Commercial Art and Illustrations. **Three hours.**

Prerequisites: Art 117, 217, 316 or equivalent.

Purpose: Development of creative ability and technical skill in the field of commercial art.

Topics: Lettering, layout, design, illustration in black and white and in color; methods of reproduction.

Art 476. Advanced Painting. **Three hours.**

Prerequisites: Art 117, 315, 316, and preferably 215 or equivalent.

Purpose: Development of technical skill and appreciation for those desiring special training in painting mediums.

Topics: Painting in water color and oil from still life and the figure. The course will be adapted to the requirements of the particular group.

Music

Mr. Van Peursem — Mr. Kinzer — Mr. Stone
Miss Campbell — Miss Sams — Miss Telford

MUSIC FEES

Individual Instruction (Piano, voice, violin, cello, band and orchestra instruments):

Two half-hour lessons per week, one semester	$27.00
One one-half lesson per week, one semester	18.00
Music 18a, 18b, 28a, and 28b, one semester	5.00

Music 238a, 238b, one semester	5.00
Practice room with piano one hour daily, one semester	5.00
Use of school owned violin, one semester	2.50

Music 11a and 11b. Piano. Individual Instruction. **No credit.**
See music fees.

This course is an introduction to piano playing and is designed to fit the needs of the non-musician who wishes to learn to play the piano or who desires to prepare himself for Music 211a. The work may be completed in one year, or it may require more time, according to the ability and application of the student.

Topics: Major scales and tonic chords.

Kohler, Op. 190; Streabbog, Op. 63; Bilbro, Progressive Early Grade Studies; Loeschorn, Op. 65, Bk. I.

Music 18a and 18b. Piano. Class Instruction. **No credit.**
See music fees.

Purpose: To give group instruction, to provide a foundation for correct piano playing and to prepare the student for more advanced private study.

Topics: Hand position, notation, simple melodies, and folk songs.

Music 21a and 21b. Voice. Individual Instruction. **No Credit**
See Music fees.

This course is an introduction to voice and is designed to fit the needs of the non-musician who wishes to learn to sing or who desires to prepare himself for Music 221a. The work may be completed in one year, or it may require more time, according to the ability and application of the student.

Music 28a and 28b. Voice. Class Instruction. **No Credit.**
See music fees.

Purpose: To give group instruction to provide a foundation for correct singing and to prepare the student for more advanced private study.

Music 31a and 31b. Violin. Individual Instruction. **No credit.**
See music fees.

This work may be completed in one year, or it may require more time, depending upon the ability and application of the student.

Topics: Such studies, scales, and exercises as will prepare the student to enter Music 231a.

Music 36a and 36b. Violin Cello. Individual Instruction. **No credit.**

See music fees.

Music 41a and 41b. Wind Instruments. Individual Instruction. **No credit.**

See music fees.

This course is an introduction to wind instruments and is designed to fit the needs of the non-musician who wishes to learn to play the

wind instruments or who desires to prepare himself for Music 243a. The work may be completed in one year, or it may require more time, according to the ability and application of the student.

Music 120. Chorus. **One hour.**

Purpose: (a) To encourage and foster a knowledge of and a desire to participate in choral singing, (b) to teach part singing, (c) to familiarize students with standard community and folk songs, with the more familiar choral works of the masters and with some of the simpler modern works for mixed chorus, (d) to acquaint prospective teachers with desirable high school choral material, (e) to illustrate ideals of choral singing and methods of attaining them.

Topics: Familiar and sacred songs, the best songs of the great song writers, and the simpler works for mixed chorus.

Music 150. Elements of Music. **Two hours.**

Prerequisite: Music 160, or equivalent music experience.

Purpose: To provide, for those of some music experience, a thorough foundation in the elements of music notation and terminology, and the fundamental principles of reading by syllable, and to equip the student with such theoretical knowledge as is needed in order to begin profitably the study of harmony.

Topics: Staff notation, notes, rests, clefs, scales (various modes), keys, meter, chromatic tones, intervals, chords, cadences, abbreviations and other symbols, music terms, elements of form, solmization, music writing and simple dictation.

Music 160. Public School Music. **Two hours.**

Purpose: To consider the subject matter of music in the rural and in the graded school, together with the educational principles applied to its presentation, and to acquire some of the skills necessary to the teaching of grade school music.

Topics: The aim of music in the grades, child voice, tone quality, unmusical singers, rhythmic development, staff notation, beginning music reading, use of the phonograph in singing and in rhythm and appreciation work, materials, and appreciation.

Music 201. Music Appreciation. **Three hours.**

Prerequisite: Music 150.

Purpose: To foster a love for, and understanding of, good music.

Topic: The best music of all times, reproduced on the phonograph; folk music, art songs, instrumental forms; instruments and instrumental music; the human voice.

Music 211a and 211b. Piano. Individual Instruction. **Two hours.** *See music fees.

Topics: Schmitt Preparatory Exercises; all major and minor scales in parallel motion; tonic chords and inversions.

Burgmuller, Op. 100; Loeschorn, Op. 65, Bk. II; Bach-Carroll, Book for Beginners; Clementi, Easy Sonatas, Op. 36.

Music 212a and 212b. Piano. Individual Instruction. **Two hours.** See music fees.

Topics: Schmitt Preparatory Exercises; major and minor scales in parallel and contra motion; tonic chords, and broken chords with inversions.

Heller, Op. 47; Duvernoy, Op. 120; Bach, Little Preludes; Clementi and Kuhlau Sonatinas.

Music 213a and 213b. Piano. Individual Instruction. **Two hours.** See music fees.

Topics: Wolff, The Little Pischna; major and minor scales in parallel and contra motion; tonic broken chords and inversions; tonic and diminished seventh arpeggi.

Czerny, Op. 299; Heller, Op. 45; Bach, Two Part Inventions; Mozart, easiest Sonatas.

Music 214a and 214b. Piano. Individual Instruction. **Two hours.** See music fees.

Topics: Philipp, Exercises Pratiques; or Pischna; major and minor scales in thirds, sixths, and tenths; tonics, dominant, and diminished seventh arpeggi, and inversions.

Cramer (Bulow), Sixty Selected Studies; Bach, three part inventions; and Sonatas by Mozart and Haydn.

Music 215a and 215b. Piano. Individual Instruction. **Two hours.** See music fees.

Topics: Philipp; Pischna, Exercises Journaliers; scales and arpeggi in faster tempi.

Bach, French Studies; Czerny, Op. 740; or Clementi, Gradu ad Parnassum; Beethoven, Sonatas.

Music 221a and 221b. Voice. Individual Instruction. **Two hours.** See music fees.

Topics: Breathing exercises inducive to correct breathing; diction, with emphasis placed on vowel formation; technical exercises to fit the individual need of the student.

Sieber studies; simple sacred and secular songs.

Music 222a and 222b. Voice. Individual Instruction. **Two hours.** See music fees.

A continuation of the fundamentals introduced in the first year's work.

Topics: Scales, with emphasis on evenness of scale; Vaccai and Marchesi studies; songs from the English, Italian and German schools.

Music 223a and 223b. Voice. Individual Instruction. **Two hours.** See music fees.

Topics: Continuation of scales, supplemented by other exercises leading to more rapid vocalization; Ponofka studies; art songs, with attention to interpretation and artistic performance.

Music 224a and 224b. Voice. Individual Instruction. **Two hours.** See music fees.

Topics: Advanced technical exercises; selections from the standard operas and oratorios; songs in French, Italian and Classical Leider.

Music 231a and 231b. Violin. Individual Instruction. **Two hours.** See music fees.

Purpose: To develop technique and solo ability; to train the student to participate in the varied chamber music combinations; to acquaint the student with the orchestral literature.

Topics: Technical proficiency through the third position; two finger scales in these positions; two octave scales in all major keys; development of the technique of the left hand and of the bow arm; sight reading.

Studies and exercises by Kayser and Wohlfart Danca, Variations. Simple classical selections.

Orchestra attendance required.

Music 232a and 232b. Violin. Individual Instruction. **Two hours.** See music fees.

Topics: Study of the positions; scales and arpeggi in all major and minor keys, in all positions; chord study, double, triple and quadruple; finger shifting and bowing exercises; one- and two-finger scales preparatory to octaves; broken octaves; sight reading.

Mazas, Opus 36; Kreutzer, Selected Studies; Fiorillo and Parre; miscellaneous pieces; one or more of the simpler concertos and sonatas.

Orchestra attendance required.

Music 233a and 233b. Violin. Individual Instruction. **Two hours.** See music fees.

Topics: Three octave scales; left and right hand pizzicato; varied bowing of the diminished seventh chord; all scales, ascending and descending on one string, with any one, two or three fingers; thirds; fingered harmonics.

Sevcik, Opus 8; Fiorillo; Rode; Wilhelmj, School of Thirds; Handel, Six Sonatas; Tartini, Sonata in G Minor.

Orchestra attendance required.

Music 234a and 234b. Violin. Individual Instruction. **Two hours.** See music fees.

Topics: Scales in thirds and octaves; fingered octaves and tenths; cultivation and development of style and an understanding of the composition being played; sonatas and concertos of preceding years continued for public performance; extensive violin solo and chamber-music literature.

The student is required to do ensemble work in string quartette, and must be able to play first violin in the college orchestra.

Music 236a and 236b. Violin Cello. Individual Instruction. **Two hours.**

See music fees.

Music 238a. Violin. Class Instruction. **One hour.**

Purpose: To provide for the beginner who wishes to learn to play the violin an opportunity to study the instrument under the stimulus of class instruction; to start the beginner on the road toward sufficient playing and technical ability to teach violin in class and to train the string section of a school orchestra

Topics: Correct violin position for playing, resting and tuning; major scales and arpeggi in first position; bowing exercises; introduction to third position; study, discussion, and practice teaching in the class; and instrumental class procedure and methods.

Books I and II of various beginners' methods, three and four part ensemble material, and simple sight reading.

Music 238b. Violin. Class Instruction. **One hour.**

Topics: Third position; bowing and finger exercises continued; fingering in half position explained and practiced; open harmonics; and string and orchestral music introduced with careful attention given to correct position, tone production, and uniform bowing.

Book III of various beginners methods, and supplementary practice and sight reading material.

Music 243a and 243b. Wind Instruments. Individual Instruction. **Two hours.**

See music fees.

Purpose: To provide instruction in wind instrument playing, to enable the student to become a proficient performer upon the instrument of his choice.

See music fees.

Topics: Embouchre; principles of tone production; breathing; tonguing; phrasing; and theory, including major and minor scales, arpeggi, and easy transpositions.

Music 246a. Band. **One-half hour.**

Open to Juniors and Seniors.

Purpose: To enable the student to become familiar with, and proficient in the performance of the best band literature; to enable the student to observe and study approved conducting practice; to acquaint the student and prospective director with efficient rehearsal routines.

Music 246b. Band. **One-half hour.**

Prerequisite: Music 246a.

A continuation of Music 246a.

Music 247a. Band. **One-half hour.**

Prerequisites: Music 246a and 246b.

A continuation of Music 246b.

Music 247b. Band. **One-half hour.**

Prerequisites: Music 246a, 246b, and 247a.

A continuation of Music 247a.

Music 248a and 248b. Wind instrument class. **One hour.**

Purpose: To provide for the beginner who wishes to learn to play a wind instrument an opportunity to study it under the stimulus of group instruction; to demonstrate methods of class instruction for prospective teachers of high school bands and orchestras.

Music 251. (Formerly Music 151.) Harmony I. **Two hours.**

Prerequisite: Music 150.

Purpose: To provide an elementary knowledge of the construction, classification, and progression of chords.

Topics: Major and minor scales, intervals, triads; dominant seventh with its resolutions; inversions; and harmony at the keyboard.

Music 252. (Formerly Music 152.) Sight Singing and Ear Training I. **One hour.**

Prerequisite: Music 150.

Purpose: To begin development of aural perception of music symbols, to teach association of the symbol with the tone it represents, and to teach reading and listening.

Topics: Sight singing of melodic exercises in major and minor keys, in various rhythms; tone groups, and verbal and tonal dictation, interval drill.

Music 253. (Formerly Music 153.) Harmony II. **Two hours.**

Prerequisites: Music 150 and 251.

Topics: Modulation by dominant seventh, cadence in new key, common chord modulation, dominant ninth, chords of the seventh, and harmony at the keyboard.

Music 254. (Formerly Music 154.) Sight Singing and Ear Training II. **One hour.**

Prerequisite: Music 252.

Topics: More difficult sight singing and tonal dictation, simple harmonic recognition, and more complex rhythms.

Music 271a and 271b. Organ. Individual Instruction. **Two hours.**

Prerequisite: At least four years of piano study.

See music fees.

Topics: Elementary Instruction Book for the Hammond Organ; Clemens, Modern School for the Organ; Preparatory studies for manuals alone; Trios for manuals and pedals; Easy Arrangements for the Hammond Organ.

Music 272a and 272b. Organ. Individual Instruction. **Two hours.**

See music fees.

Topics: Buck, Studies in Pedal Phrasing; Bach, Selected Chorale Preludes; Easier Works of Mendelssohn, Guilmont, and other composers for organ.

Music 273a and 273b. Organ. Individual Instruction. **Two hours.** See music fees.

Topics: Dupre, Seventy-nine Chorales; Bach, Selected Chorale Preludes; Selected Works from Guilmant, Rheinberger, Mendelssohn; Selected Modern Compositions.

Music 274a and 274b. Organ. Individual Instruction. **Two hours.** See music fees.

Topics: Bach; Chorale Preludes, Preludes and Fuges; Mendelssohn, Sonata I or II; Widor, Symphony II or IV, Selected Modern Compositions.

Music 302. (Formerly Music 202.) Music History I. **Two hours.**

Purpose: To increase the enjoyment and appreciation of the listener to music through the study of music history.

Topics: The development of music from the earliest times up to the Romantic period, and important facts concerning composers and the like. Extensive use is made of phonograph records.

Music 303. (Formerly Music 203.) Music History II. **Two hours.**

Purpose: To continue the study of Music History begun in Music 302.

Topics: Music from the Romantic period until the present time.

Music 351. (Formerly Music 251.) Harmony III. **Two hours.** A continuation of Music 253.

Music 352. (Formerly Music 252.) Sight Singing and Ear Training III. **One hour.**

A continuation of Music 254.

Music 353. (Formerly Music 253.) Harmony IV. **Two hours.** A continuation of Music 351.

Music 354. (Formerly Music 254.) Sighting Singing and Ear Training IV. **One hour.**

Music 361. (Formerly Music 261.) Grade Methods and Materials. **Two hours.**

Prerequisites: Music 150 and 160, or the equivalent.

Purpose: To prepare the advanced student for the teaching and supervision of music in the grades, and to acquaint him with methods and materials.

Topics: Same as Music 160, but a more advanced consideration. The course includes observation, and library reading.

Music 362. (Formerly Music 262.) Conducting. **Two hours.**

Prerequisites: Music 150 and 160, or the equivalent.

Purpose: To train students to conduct chorus and orchestra efficiently, and to lead community singing.

Topics: Technique of the baton, tempo, attach, release, phrasing, dynamics, seating of the chorus and orchestra, discipline of rehearsals, and community music.

Music 363a and 363b. Teaching of Piano in Classes. **Two hours.**
Prerequisite: Music 213, or the equivalent.

Purpose: To prepare the advanced student for the teaching of class piano in the graded school.

Topics: Methods of teaching piano in classes, observation, and practice teaching.

DIVISION OF MILITARY SCIENCE AND TACTICS

Major Gallaher Captain Link Technical Sergeant Bentley
Captain Ford Staff Sergeant Winslade

The object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States. This goal is attained through instruction and methods which fit men physically, mentally, and morally for pursuits of peace, as well as for duties as leaders in the defensive forces of the nation in an emergency. The course of study is outlined to give the student training which will be valuable to him in his industrial or professional career. The instruction is planned to train students for positions of leadership and to inculcate in them a respect for all lawful authority, as well as to teach them the fundamentals of the military profession.

All men of good character between the ages of 15 and 25 years, inclusive, who can pass the physical examination required, are eligible for enrollment in the R. O. T. C. (Reserve Officers Training Corps).

R. O. T. C. training is divided into two parts, the basic course of two years, and the advanced course of two years.

A student having enrolled for one of these courses, and having started work on the course will be required to complete the course unless he is released by proper authority, or leaves school with proper authority.

Enrollment in the R. O. T. C. and completion of the basic and advanced courses in a satisfactory manner and completion of summer camp, makes the enrollee eligible to receive a commission as a Second Lieutenant of Field Artillery in the organized reserve corps.

A student so commissioned in the organized reserves **is not** subject to being ordered to active duty with any of the components of the army in time of peace, **except at his own request.**

Enrollment in the R. O. T. C. does not obligate the enrollee for military service in other components nor make him subject to call for any military service in either peace or war. **Graduation** from the advanced course and acceptance of a commission in the Organized Reserve Corps does make the individual subject to military service **in time of war.**

ALLOWANCES AND COSTS

Students enrolling in the **basic course** receive no cash allowances, but are issued articles of uniform for their personal wear to the value of approximately thirteen dollars. They are required to make a

deposit of five dollars on these items to cover possible loss or damage not due to ordinary fair wear and tear. This deposit is similar to laboratory deposits for other courses, and if the articles of uniform are returned in good condition to the Custodian of Military Property at the end of the term, allowing for reasonable wear, the entire amount of the deposit is returned to the student. The deposit is of course returned to students who may have to leave the college, on return of the articles of uniform.

The articles of uniform issued to the student are expected to last him for two years, and must be cared for by the student. At the end of the term, if the student intends to return to college the following year, his uniform is cleaned (at government expense) tagged with his name, and packed away in moth preventive for reissue to him on his return.

In addition to the articles of uniform issued by the government for use of basic course students, a leather belt costing approximately $1.10 and supplied through the College Book Store will be needed. Eventually, these belts will also be issued by the government.

Textbooks for the basic course will cost about $1.25 a year; for the advanced course about $2.35. The total initial outlay will be $7.35 of which his deposit of $5.00 is returned to the student if he has taken good care of his uniform and government equipment.

Students who enroll in the advanced course receive a money allowance to cover the cost of the officer's uniform with which they are required to provide themselves. This allowance amounts to approximately $90.00 for each school year they are enrolled in the advanced course.

This uniform is the regulation officer's uniform, and can be worn with appropriate insignia after receiving a commission in the organized reserve; therefore, it is advisable to purchase good quality articles and utilize the bulk of the uniform allowance for this purpose.

Upon completion of the first year of the advanced course, the student is required to attend a summer training camp for six weeks. His expenses of going to, and returning from, camp, are paid by the government. During his stay in camp he is issued the necessary clothing for wear during the camp, is given free medical attention should it be necessary, is fed at government expense, and is paid seventy cents a day.

During the camp the student puts into practice what he has learned during his instruction at the school R. O. T. C. unit, and engages in service practice with the Field Artillery guns, for which a liberal ammunition allowance is provided.

While in camp he will normally do his work under the supervision of the officers who have given him previous instruction, but will also meet and work with other officers and men from other units of the R. O. T. C

In a large camp with several units participating, there is keen rivalry, and competitive contests, both military and athletic, are held, adding to the pleasure of attending the camp.

One fifty-minute period per week is set aside for corps day. On this day, the entire R. O. T. C. is turned out as a unit for military ceremonies. It is essential that R. O. T. C. men keep this hour open although corps day is not held every week.

BASIC COURSE

Military Science 101. Introduction to Military Science. **One and one-half hours.**

Purpose: To give the student a thorough grounding in the fundamentals of military service and the elements of field artillery gunnery.

Topics: Military discipline and the customs of service; leadership; field artillery ammunition and materiel; duties of cannoneers and firing battery; military sanitation and first aid; obligations of citizenship; and elementary gunnery.

Military Science 101a. Basic Course in Military Band. **One and one-half hours.**

Military Science 102. Fundamentals of Military Training. **One and one-half hours.**

Prerequisite: Military Science 101.

Purpose: Continuation of introductory course in military science.

Topics: Military history and policy; leadership; duties of cannoneers and firing battery.

Military Science 102a. Basic Course in Military Band. **One and one-half hours.**

Prerequisite: Military Science 101a.

Purpose: This course is a continuation of Military Science 101a.

Military Science 201. Basic Military Fundamentals. **One and one-half hours.**

Prerequisite: Military Science 102.

Purpose: To give the student basic instruction in the work of the battery commander's detail, in leadership, and in automotive vehicle construction and operation.

Topics: Fire control instruments; map and aerial photograph reading; battery communications; leadership; automotive vehicle construction and operation.

Military Science 201a. Basic Course in Military Band. **One and one-half hours.**

Prerequisite: Military Science 102a.

Military Science 202. Basic Military Fundamentals. **One and one-half hours.**

Prerequisite: Military Science 201.

Topics: This course is a continuation of Military Science 201.

Military Science 202a. Basic Course in Military Band. **One and one-half hours.**

Prerequisite: Military Science 201a.

ADVANCED COURSE

Military Science 301. First Year Advanced Course. **Three hours.**

Prerequisite: Military Science 202.

Purpose: To introduce the student of military science to the work of field artillery personnel operating as a team and to advanced work in gunnery and the use of military motor vehicles.

Topics: Reconnaissance; selection and occupation of position including duties of battery officers; use of battery commander's detail, field artillery signal communications; liaison with the infantry; leadership; gunnery, including elementary ballistics and dispersion; preparation of fire; conduct of fire; military motor vehicles; and pistol marksmanship.

Military Science 302. First Year Advanced Course. **Three hours.**

Prerequisite: Military Science 301.

Purpose: A study of military team work, advanced gunnery, and motor vehicles.

Topics: This course is a continuation of Military Science 301.

Military Science 401. Advanced Work in Military Science. **Three hours.**

Prerequisite: Military Science 302.

Purpose: To develop in students of military science in the advanced course a facility in the functions of leadership by allowing them to act as officers in the R. O. T. C.; to introduce them to the subjects of military tactics, military history and policy, military law and administration.

Topics: Functions of command; instruction of basic R. O. T. C. students; military phases of motor vehicle operation; technical instruction in military tactics and work of the associated arms; military history and policy; the law of military offenses; the articles of war; courts-martial; and a study of the essentials of military administration.

Military Science 402. Advanced Work in Military Science. **Three hours.**

Prerequisite: Military Science 401.

Purpose: This course is a continuation of Military Science 401.

Topics: This course is a continuation of the study of the subject matter outlined in Military Science 401.

DIVISION OF BIOLOGICAL AND PHYSICAL SCIENCES

Mr. Hummell Mr. Cox Miss Krick
Mr. Kennamer Mr. Herndon Mr. Rumbold

General Science

The two courses in survey of science are designed for elementary teachers and supervisors. They are primarily content courses dealing with the general fields of the biological and physical sciences. The subject matter of these courses include also aims in teaching elementary science, methods of presentation, and ways of collecting, using, and preserving materials for the teaching of science.

Science 110. Survey of Science. **Three hours.**

Not open to students who have had one or more courses in the physical sciences.

Purpose: The purpose of this course is to present the field of the physical sciences, their nature and interpretation.

Topics: This course deals with the important topics in physics, chemistry, geology and related subjects.

Science 111. Survey of Science. **Three hours.**

Not open to students who have had one or more courses in the biological sciences.

Purpose: This course is a continuation of Science 110 and presents in broad outline the field of the biological sciences.

Topics: This course deals with the important topics in biology, botany, zoology, and related subjects.

Science 310. Problems in General Science. **Three hours.**

Not open to students who have had Science 110, Survey of Science, or Science 111, Survey of Science.

Purpose: The purpose of this course is to give the student a brief but adequate understanding of the field of general science.

Topics: This course is devoted to the important problems and developments in the field of general science.

Biology

Mr. Rumbold Miss Krick

Biology 121. General Biology. **Four hours.**

Purpose: An elementary course intending to give the student a survey of the plant and animal knigdoms; to introduce the student briefly to genetics; to study man's structure, development, and rela-

tionship to other animals; to acquaint the student with the more complex phenomena of life.

Topics: Fields of biology; history of biology; algae; fungi; mosses, ferns, higher seed plants; intermediate forms; protozoa; porifera; coelenterata; segmented worms; insecta; vertebrates. The frog—digestive system, blood system, nervous system, excretory system, reproductive system, respiratory system, embryology, homology, and analogy; protective coloration; adaptation, and genetics.

Biology 231. Botany I. General Botany. **Four hours.**

Purpose: An introductory course in botany whose purpose is to give the student fundamental principles regarding the structure, function and reproduction of representative seed plants. Occasional field trips are provided in order to study plants growing in the field and greenhouse.

Topics: History of botany; cell structure and growth; detailed study of structure of root, stem, leaf, flower, fruit and seed; plant response to environment and plant heredity.

Biology 232. Botany II. General Botany. **Four hours.**

Prerequisite: Biology 121.

Purpose: To give the student a wider knowledge of the field of botany from the lowest algae to seed plants; to give an organized view of the structure, reproduction, and interrelationship of the four great plant groups.

Topics: Representatives of the four divisions of plants are studied as to their structure, reproduction, and economic importance. Three lines of development are followed: (1) development of plant body from simple to complex, (2) development of the concept of alternations of generations, (3) development of sex in plants.

Biology 241. Invertebrate Zoology. **Four hours.**

Purpose: This course is intended for students who desire to major in the biological sciences. It includes a detailed survey of the lower forms of the animal kingdom.

Topics: Protozoa, porifera, coelenterata, ctenophora, platyhelminthes, nemathelminthes, annelida, echinodermata, mollusca, and arthropoda in more detail than offered in Biology 121. Examples, characteristics, life histories, structures, and ecology with a discussion of their evolution.

Biology 242. Comparative Anatomy. **Four hours.**

Prerequisite: Biology 121 or 241.

Purpose: Intended for pre-medics and majors in biology and physical education. An intensive study of the comparative anatomy of the various systems of vertebrates, including dissection work.

Topics: The comparative anatomy of the skin, digestive, circulatory, respiratory, excretory, reproductive glands of internal secretion, skeletal, muscle, nervous and sense organs in vertebrates.

Biology 325. (Formerly Biology 225.) Genetics. **Two hours.**

Prerequisite: Biology 121, or 231, or 241.

Purpose: Introduction to the laws of inheritance and their application to man, including a consideration of the factors underlying race deterioration and race betterment.

Topics: Mendel and Mendel's laws, recent workers including T. H. Morgan, Chromosome theory of heredity, linkage, crossing over, interference, biometrics, race betterment, and race deterioration.

Biology 335. (Formerly Biology 235.) Local Flora. **Two hours**

Prerequiste: Biology 121 or 231.

Purpose: To familiarize the student with the local flora, to instruct in the use of various systematic keys to flora, and to enable the student to recognize and classify the flowering plants.

Topics: Various systems of classifications; the basis for scientific names. The most frequent and most important families of plants are studied from the standpoint of their flower and fruit characteristics as a basis of classification into families, genera and species. Identification of flowers is given a prominent place.

Biology 343. (Formerly Biology 243.) Economic Entomology. **Four hours.**

Purpose: To introduce to the student the most important insects economically on the farm, in the home, and in other habitats. Field work with the making of a collection of important economic insects.

Topics: Taxonomy of insects, anatomy and physiology of insects, life history, economic importance, methods of control.

Biology 433. (Formerly Biology 233 and 333.) Plant Diseases. **Three hours.**

Prerequisites: Biology 231, or 121 and permission of the instructor.

Purpose: To give definite information regarding the most important plant diseases of this region of the United States, and to acquaint the student with the general problems in the field of plant pathology.

Topics: Typical plant diseases are studied with regard to their symptoms, causes and means of spread; life history of the causal organisms; and economic importance of the disease and methods of control.

Biology 444. (Formerly Biology 244 and 344.) Animal Parasites. **Four hours.**

Prerequisite: Biology 121 or 241.

Purpose: Course is intended for students preparing for medicine or public health work. A consideration of the animal parasites with particular emphasis upon those infesting man and their treatment.

Topics: Protozoa-Sarcodina (amoebic dysentery); Mastigophora (Trypanosames); Spirocheatacea; Infusoria; Sporozoa, including various types of malaria; Platyhelminthes (flukes and tapes); Nemathel-

minthes (ascaris, hook worm, trichina, whip worm, elephantiasis, guinea worm, etc.); prevalence of parasitic worms and remedial measures; animal parasites among Mollusca, Annelida, and Arthoropoda; Archnida (mites and ticks); Arthoropoda (lice, bed bugs, fleas, flies, mosquitoes); poisonous animals.

Biology 445. (Formerly Biology 245 and 345.) Embryology. **Four hours.**

Prerequisites: Biology 121 and 242.

Purpose: This course is designed primarily for majors and minors in the department and pre-medical students acquainting them with the fundamental principles of embryology as found in the animal kingdom.

Topics: Complete study of the embryology of the starfish, frog, and chicken, with considerable work on mammalian embryology.

Biology 481. (Formerly Biology 381.) Animal Physiology. **Four hours.**

Prerequisite: Biology 121 or 241.

Purpose: This course is intended for majors in home economics, physical education, and biology. It is a course in functional zoology with a detailed study of the physiological processes in the human body.

Topics: Physiology of respiration, muscles, reproduction, excretion, nervous system, circulation, and digestion.

Chemistry

Mr. Cox Mr. Herndon

The chief function of this department is the training of chemistry and science teachers. However, courses are offered to meet all requirements for medicine, dentistry, engineering and graduate work.

Chemistry 111. (Formerly Chemistry 211.) General Chemistry. **Four hours.**

Purpose: The purpose of this course is to give the student the fundamental principles of Chemistry.

Topics: A brief history of the development of the science of chemistry; the chemical nature of matter; preparation and properties of oxygen, hydrogen, nitrogen, chlorine, carbon and sodium; the gas laws; the chemistry and purification of water; the theory of solutions; acids, bases, salts and neutralization; the theory of ionization and its applications; microcosmic chemistry, periodic law.

Chemistry 112. (Formerly Chemistry 212.) Inorganic Chemistry. **Five hours.**

Prerequisite: Chemistry 111.

Purpose: Continuation of the year's work in the first year of college chemistry.

Topics: Sulfur and compounds; phosphorus and compounds; ceramics; law of mass action and equilibrium; colloids; metallurgy, radioactivity; periodic numbers and their significance.

Chemistry 213. Qualitative Analysis. **Four hours.**

Prerequisites: Chemistry 111 and 112.

Purpose: A continuation of Inorganic Chemistry with special reference to the separation and identification of the metals and non-metals and the theory of solutions.

Topics: Simple equilibrium; complex equilibrium; solubility product law; law of precipitation; law of solution; law of the common-ion; introduction to the use of the spectroscope and microscope in analysis; identification of minerals.

Chemistry 215. Organic Chemistry. **Five hours.**

Prerequisites: Chemistry 111 and 112.

Purpose: To give a general survey of the principal compounds of Aliphatic organic chemistry.

Topics: Methane series and derivatives; ethylene series and derivatives; acetylene series and derivaties; polycyclic compounds; glucids, lipids, protids and related compounds.

Chemistry 216. Quantitative Analysis. **Five hours.**

Prerequisite: Chemistry 213.

Purpose: To give fundamental experience in the technique of quantitative determination.

Topics: The principles and use of the analytical balances; calibration of weights; the laws of partition; principles of stoichiometry; quantitative determinations of ordinary metals and non-metals; gravimetric, volumetric, and electrolytic determinations.

Chemistry 220. Organic Chemistry. **Three hours.**

Open only to majors in home economics.

Prerequisites: Chemistry 111 and 112.

Purpose: To give an elementary knowledge of organic chemistry.

Topic: A study of the applications of organic chemistry to food, nutrition and other problems in home economics.

Chemistry 312. Advanced Organic Chemistry. **Four hours.**

Prerequisite: Chemistry 215.

Purpose: To give a general survey of the aromatic organic compounds and to acquaint the student with some of the theories of modern organic chemistry.

Topics: Aromatic hydrocarbons, aldehydes, phenols, amines, diazonium compounds, dyes, drugs, etc.; theory of color, molecular rearrangements, tautomerism, etc.

Chemistry 313. Biochemistry. **Five hours.**

Prerequisite: Chemistry 215.

Purpose: To acquaint the student with the chemical reactions of digestion and metabolism.

Topics: Qualitative tests for digested substances in vivo and in vitreo; chemical nature of muscle, blood and bone; enzyme action; urine analysis.

Chemistry 411. (Formerly Chemistry 311.) Advanced Quantitative Analysis. **Three hours.**

Prerequisite: Chemistry 216.

Purpose: To familiarize the student with the different methods and instruments used in quantitative analysis.

Topics: Analysis of ores; potentiometric determinations; the principle and use of the colorimeter; polariscope; gas analysis; combustion train.

Chemistry 415. (Formerly Chemistry 315.) Physical Chemistry. **Five hours.**

Prerequisite: Chemistry 216.

Purpose: To broaden the student's conception of chemical laws and to illustrate interrelationships of chemistry and physics.

Topics: Quantitative determination of the kinetic theory; gas laws and molecular weights; Debuy's theory of the dieletric constants; phase rule; laws of thermodynamics.

Chemistry 430. Problems in Chemistry. **Four hours.**

Prerequisite: Senior standing in Chemistry.

Purpose: To develop the student's initiative in laboratory work; to acquaint the student with the methods of research.

Topics: Research in physical, organic, analytical or bio-chemical problems.

Geology

Mr. Kennamer

Geology 301. (Formerly Geology 201.) Physical Geography and Geology. **Three hours.**

Purpose: This course is designed (a) to give the student a knowledge of the land forms, their origin and history, their changes, and their influence on man, (b) to teach the use of geologic and topographic maps, and (c) to teach the student to interpret present day environment.

Topics: Materials of the earth; weathering; work of wind; work of ground water; work of streams; work of glaciers; the ocean and its work; the structure of the earth; earthquakes; volcanoes and igneous intrusions; metamorphism; mountains and plateaus; ore deposits; soils, their classification and origin, major physiographic features, their origin and influence on man.

Physics

Mr. Hummell

Physics 102. Household Physics. **Three hours.** Primarily for students majoring or minoring in Home Economics.

Purpose: To study the principles of physics and their applications in the home.

Topics: Forces and their effects; work, energy and power; elementary machines; heating, refrigeration, and air conditioning; principles of electricity, sound and light; applications in the home and community such as the telephone, radio, talking pictures, transportation, transmission of pictures, automatic controls.

Physics 201. Mechanics, Heat and Sound. **Five hours.**

Prerequisite: Mathematics 107.

Purpose: A general course treating mechanics and heat, and given not only for those students who intend to teach physics in high school, but also for those students who expect to enter the fields of engineering or medicine.

Topics: Falling bodies; Newton's laws of motion and applications to practical problems; curvilinear motion; composition and resolution of forces; the laws of equilibrium and their application to various problems; work and energy; machines; momentum; elasticity; simple harmonic motion; hydrodynamics; heat and molecular physics including thermometry, pressure, expansion of solids, liquids, and gases, and modern radiation theory.

Physics 202. Electricity, Magnetism, Wave Motion and Sound, and Light. **Five hours.**

Prerequisite: Physics 201.

Purpose: This course is a continuation of Physics 201, and should be taken by the student who expects to teach physics or general science in high school, or to enter the engineering field.

Topics: Electrostatics, the nature of electricity, properties of a moving electric charge (chemical, heating, and magnetic effects), magnetism, Ohm's law, measurement of electrical quantities, sources of electrical energy, Lenz's law, inductance and capacity, alternating current, and electric waves and radio.

Physics 300. Modern Physics. **Five hours.**

Prerequisites: Physics 201, Physics 202, Mathematics 351 or registration in Mathematics 351.

Purpose: To acquaint the student with the general field of modern physics before he studies the special subjects in more detail.

Topics: Historical introduction, alternating current, electromagnetic theory of radiation, properties of moving charged bodies, the electron, kinetic theory of gases, thermionics, the photoelectric effect, x-rays and their applications, Bohr theory of spectra, periodic law and atomic structure, critical potentials, radio and television, radioactivity and isotopes, geophysics, astrophysics, relativity, specific heats, electrical resistance, high frequency sound waves, and recent development in physics.

Physics 302. Introduction to Physical Optics. **Three hours.**

Prerequisites: Physics 201 and 202.

Purpose: To study the nature of light and its related phenomena.

Topics: Wave motion, reflection and refraction, further study of lenses, the telescope, dispersion, facts concerning the spectrum, interference, diffraction, plane polarized light, the electromagnetic theory of light, the quantum theory and origin of spectra, the dilemma.

Physics 303. Heat. **Three hours.**

Prerequisites: Physics 201 and 202.

Purpose: To study the nature of heat more comprehensively than can be done in Physics 201.

Topics: Historical review of theories and discoveries; thermometry; specific heats; thermal expansion; transfer of heat; first law of thermodynamics; radiation; change of state; continuity of state; introduction to thermodynamics, production of low temperatures; production of high temperatures.

Physics 304. Advanced Electricity and Magnetism. **Three hours.**

Prerequisites: Physics 201, 202, and Mathematics 351.

Purpose: To study the theory of electricity and magnetism.

Topics: Magnetism, the electric current, electrostatics, electrolysis, thermo-electricity, electromagnetics, alternating currents, electromagnetic radiation, conduction in gases, electrons and atoms.

Physics 306. Sound. **Three hours.**

Prerequisites: Physics 201 and 202.

Purpose: To study sound and acoustics more intensely than can be done in Physics 201.

Topics: Theory of vibrations; vibrating systems and sources of sound; transmission of sound; reception, transformation and measurement of sound energy; technical applications.

Physics 401. (Formerly Physics 301.) An Advanced Course in Mechanics. **Five hours.**

Prerequisites: Mathematics 352 or registration in Mathematics 352, and Physics 201 and 202.

Purpose: To give the student a firm grasp of the physical principles of theoretical mechanics.

Topics: Elemental concepts of mechanics; rectilinear motion of a particle; curvilinear motion; particle dynamics from the point of view of energy; statics of a particle; statics of a rigid body; dynamics of a rigid body; constrained motion; oscillations; motion of aggregates of particles; deformable bodies and wave motion; mechanics of fluids.

DIVISION OF EDUCATION

Mr. Jones
Mrs. Case
Mr. Cuff
Mr. Edwards
Mr. Ferrell
Miss Hansen
Mr. Kinzer
Miss Lee
Mr. Mattox
Mr. O'Donnell
Miss Schnieb
Mrs. Tyng

Training School Staff

Miss Alvis
Miss Bray
Mr. Bryant
Miss Carpenter
Mr. Coates
Mr. Grise
Miss Lingenfelser
Miss Pugh
Miss Regenstein
Miss Rush
Miss Story
Mr. Walker
Miss Wilson
Miss Wingo

Education 102. Introduction to Education. **Three hours.**

Purpose: To help the student determine his own personal fitness for teaching, to acquaint him with the nature of the profession of teaching, and to aid him in choosing intelligently a teaching field.

Topics: The profession of teaching, the teacher, the teaching process, school organization and control, recent trends in education, the teacher and the community, the child, the curriculum of the public school, education as a field for life work.

Education 111. Educational Psychology. **Three hours.**

Purpose: (a) To introduce the future teacher to the fundamental principles of educational psychology, (b) to teach the student to apply the psychology of learning to classroom activities, and (c) to provide some acquaintance with the field of measurement.

Topics: The field of educational psychology, heredity and environment, growth and development, incentives and motives, feelings, attitudes and emotions, mental hygiene, intelligence and its measurement, individual differences and the school, the learning process, economy and efficiency in learning, factors influencing learning, transfer of training, reasoning, imagining, and problem solving, the measurement of learning, socialization and guidance.

Education 203. Principles of Teaching. **Three hours.**

Prerequisite: Education 111.

Purpose: (a) To develop an understanding of the principles basic to effective teaching; (b) to acquaint the student with the fundamental problems of teaching and to apply the teaching principles to the possible solutions of those problems.

Topics: Meaning of education; meaning and function of the school; meaning and evidences of learning; purposeful activities; selection and organization of subject matter; various types of class procedure; making assignments; standards for judging teaching.

Education 261. Fundamentals in Early Elementary Education. **Four hours.**

Purpose: (a) To provide graduated approach to student teaching in the primary grades, (b) organize units of work, both group and individual, (c) introduce methods in teaching grades one, two, and three, (d) learn to make lesson plans, (e) give practice in organizing materials for the between-recitation period, (f) evaluate theories of teaching in the light of classroom procedure, by direct observation in the Training School, by assigned readings, and by classroom discussion, (g) acquaint the student with the common school problems and activities which arise in the experience of teachers as daily program, school sanitation, economy of time, discipline, class and individual instruction, and (h) to help the student sense the relation of the school to the community and cultivate a constructive and harmonious contact between the two.

Topics: Standards for observing class work; lesson planning; daily program; teaching pre-primer reading, reading in the primary grades, oral and written expression, spelling, number work, social studies, nature study, health and seat work; measuring progress of instruction; the meaning and the function of the school; school organization and equipment; class organization; function of the course of study, curricular activities, classroom routine and equipment; school sanitation; economy of time; discipline and community cooperation.

Education 263. Fundamentals in Intermediate Education. **Four hours.**

Purpose: (a) To acquaint the student with the common school problems and activities which arise in the experiences of teachers, (b) to help the student see the relation of the school to the community and sense the importance of bringing the schools into the homes, (c) to give practice in organizing units of work for use in the intermediate grades, (d) to give practice in making lesson plans, (e) to introduce some of the devices and methods used in modern teaching, and (f) to evaluate theories of teaching in the light of classroom procedure by directed observation in the intermediate grades of the Training School and by assigned readings and class discussion.

Topics: The meaning and the function of the school, school organization and equipment, class organization, function of the course of study, curricular activities and materials, classroom routine and equipment, community cooperation, standards for observing class work, lesson planning, teaching the elementary school subjects in the later grades, and measuring progress of instruction.

Education 265. Supervised Student Teaching. **Three hours.**

Prerequisite: Education 261 or Education 263.

Purpose: It is the purpose of this course (1) to develop by practice the skills, techniques and controls essential to successful class-

room procedure in the elementary school and (2) to acquaint the student teacher with modern devices and materials of elementary education.

Topics: Observation of the activities of the classroom and materials of instruction. Under the training teachers supervision activities are planned, and help is given in the performance of routine. Actual class teaching begins with a small group of children, but near the end of the term the student teacher is expected to take charge of the entire room. All student teachers meet the training teacher under whom they work for a one-hour conference period daily.

Education 301. (Formerly Education 201.) The Junior High School. **Two hours.**

Purpose: To familiarize prospective high school principals and teachers with the aims, purposes, and objectives of the junior high school.

Topics: Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 302. Pupil Accounting. **Three hours.**

Purpose: (a) To give specific preparation for the work of attendance officer, (b) to give prospective superintendents and teachers a better understanding of the problem of attendance and its effect on the efficiency of the school.

Topics: Relation of attendance to pupil progress; social and economic factors which affect attendance; school census; personnel records. In developing these topics a study will be made of personnel work in typical schools of Kentucky.

Education 304. Materials and Methods for Teaching Vocational Home Economics. **Three hours.**

Prerequisites: Eighteen hours of Home Economics, Education 111, Education 313 or Education 314, and Education 364.

Purpose: To give the student experience in the evaluation of teaching Home Economics subjects; experience in the organization of materials for the teaching of these subjects; experience in the co-ordination of school work with life's activities.

Topics: Underlying principles of teaching, methods of presentation of various subjects and topics, observations of teaching, laboratory equipment, types of laboratories, books and periodicals.

Education 305. Educational Sociology. **Two hours.**

Purpose: (a) To investigate the several factors and laws upon which educational theory and practice must rest, (b) to give a concrete picture of the actual conditions and the distinctive characteristics of group life, (c) to furnish teachers and prospective teachers with a fundamental background necessary for a sympathetic under-

standing of the relation of the school to the upbuilding of the other institutions of the community and (d) to study the social forces which determine the selection of school subjects, their content, method of presentation, and social values.

Topics: The relation of sociology to education; the problems with which educational sociology deals; the individual in relation to the group; the nature of society; social groups, their classification, and functions; problems of the modern home; social analysis of play; neighborhood and community; isolation, contact, and social interaction; social forces and their significance in modern society; problems of the church in changing civilization; the state, democracy, and education; evolution of the modern school; social and educational surveys; the sociological determination of educational objectives; the selection of school subjects; social elements and values in the curriculum; vocational education sociologically analyzed; educational and vocational guidance; social phases of school discipline; socialized methods of teaching; the essential elements of a socialized school.

Education 313. (Formerly Education 114 and 213.) Child Psychology. **Three hours.**

Purpose: (a) to acquaint the student with the most important facts and principles relative to childhood, (b) to describe the behavior and activities which may be expected of a child in any stage of development, (c) to teach the student how to observe and to interpret the behavior of children, and (d) to cultivate a sympathetic and understanding attitude toward child life.

Topics: Introduction, biological foundations, early childhood, motivation, emotion, language, manipulation, play, physical development, mental life, learning, intelligence, character and personality, adolescence, individual differences, and guidance of children.

Education 314. (Formerly Education 214.) Psychology of Adolescence. **Three hours.**

Purpose: (a) To acquaint students with the most important facts and principles relative to adolescence, (b) to describe adolescent nature, growth, and development so as to facilitate both reliable prediction and suitable guidance of behavior during the teens, (c) to teach students how to solve problems of adolescent behavior, and (d) to cultivate a sympathetic and an understanding attitude toward adolescence.

Topics: Introduction, physical development, mental development, growth of intelligence, adolescent instincts and interests, emotional life, learning and forgetting, moral and religious development, adolescent personality, disturbances of personality, hygiene of adolescence, prediction of adolescent behavior, and guidance of adolescent behavior.

Education 331. History of Education. (3 hours.)

Purpose: (a) To enable the student to understand and appreciate the place education holds in the development of modern civiliza-

tion; (b) to analyze and interpret modern educational theories and practice in the light of our educational heritage; (c) to familiarize the student with the rise and development of public education in the United States.

Topics: Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece and Rome and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; education influences of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart; rise and development of public education in the United States with emphasis upon the work of Horace Mann, Henry Barnard, and James G. Carter; sociological, psychological, and scientific movements in education; desirable educational reorganizations; brief study of the history and development of public education in Kentucky.

Education 332. Philosophy of Education. **Three hours.**

Purpose: (a) To lead the student to recognize that education is the process by which one's attitudes toward society are formed; (b) to assist the student in discovering the relation between education and the character of government under which he lives; (c) to help him to understand the meaning of education in his effort to achieve the abundant life.

Topics: The meaning of education; educational values; education and democracy; the development of ideals; education as a necessity of life; education as growth; interest and discipline; thinking in education; the nature of the subject matter; education and philosophy.

Education 343. Problems in Rural Education. **Three hours.**

Purpose: To familiarize the student with the important problems in the field of rural education.

Topics: This course is a laboratory course in rural education and is devoted to the practical problems in this field. Among the subjects considered are the problems of attendance, supervision of instruction, techniques of teaching, libraries, transportation of pupils, parent-teacher organizations, lunch rooms, playground activities, and the like.

Education 354. (Formerly Education 164 and 254.) Reading in the Elementary School. **Three hours.**

Purpose: To familiarize the elementary school teacher with the best modern principles, methods, and devices; to enable him to see these theories carried out in actual practice; to acquaint him with the best literature of the teaching of reading, together with the best basal and supplementary texts available for this purpose.

Topics: Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction,

Education 358. (Formerly Education 558.) Public School Finance. **Two hours.**

Purpose: To acquaint the student with the problems of financing the public schools of the land. Some attention is paid to general tax theory, but most of the time is spent on practical financial problems of the local school district, and the financial relationship between the local district and the state.

Topics: Among the topics studied the following may be mentioned: The growth of the cost of education, comparative costs in education, the school budget, financial records and accounts, school indebtedness, control of school finances, financial aspects of school publicity, educational inequalities, the units of school support, apportioning the benefits and the sources of public school revenue.

Education 364. Fundamentals of Secondary Education. **Four hours.**

Purpose: (a) To provide a graduated approach to student teaching in the high school grades; (b) to help the student to become keenly aware of high standards with respect to professional responsibilities of teachers to pupils, co-workers, and the community; (c) to help the student to evaluate and set up aims, to select and arrange subject matter for learning situations, and to direct appropriate learning procedures; (d) to acquaint the student with techniques of measurement, remedial procedures, and methods of adjustment to the needs of individual pupils.

Topics: Development of the secondary school in other countries and in the United States; functions of secondary school in a modern educational system; specific aims, objectives, issues of secondary school; development of a working philosophy of secondary education in a democratic society; membership in educational associations; social, community, school, and pupil-teacher relationships; reading professional literature; knowledge of extra class activities; planning, setting up objectives; selecting and organizing subject-matter; taking account of and developing pupils' abilities, interests, and needs; instructing, assigning work, providing opportunity for pupils' activities; teaching pupils to study; investigating and evaluating pupils' needs, abilities, and educational achievements and outcomes; developing useful teaching traits; physical aspects of the classroom; economical classroom procedures; problems in classroom organization; the place of routine; school discipline; daily program; equipment facilities; duties of home-room teacher; class counselor; personnel records; pupil interview; group, occupational, educational, and health guidance; methods of guidance; follow-up surveys.

Education 365. Guidance. **Two hours.**

Purpose: To acquaint the student with information concerning the various phases of guidance and placement.

Topics: Practical problems connected with guidance and placement, counseling of pupils and parents, survey of guidance materials, counselor's use of materials, and case studies.

Education 368. (Formerly Education 268.) Extra-Curricular Activities in the High School. **Two hours.**

Purpose: To provide a brief survey of the development and organization of extra-curricular activities and to evaluate this phase of secondary education.

Topics: Aims and purposes, school and class organizations, school clubs, athletic activities, school publications, fraternities and sororities, school government, desirable programs.

Education 411. (Formerly Education 311.) Character Education. **Two hours.**

Purpose: To afford the student an acquaintance with the psychology of and the proposed plans for character development.

Topics: Need of character education; objectives of character education; sources of conduct; evolution of conduct; methods of measuring personality and character growth; plans for character development—home training, direct instruction, discipline, codes, honor systems, extra-curricular activities, curricular activities, and religious organizations; the most promising experiments; research needed.

Education 415. (Formerly Education 315.) Advanced Educational Psychology. **Three hours.**

Purpose: (a) To enable the student to study intensively and extensively the major topics of educational psychology as developed in outstanding research studies and textbooks, (b) to improve the student's ability to teach by increased knowledge of how learning occurs, (c) to discuss conditions for effective school work, and (d) to apply the principles of psychology in other school relationships.

Topics: Motivation and adjustment, intelligence and its measurement, psychology of learning, measures of achievement and of personality, psychology in other school relationships.

Education 421a. Tests and Measurements for the Elementary School. **Two hours.**

Purpose: To determine the need for tests and measurements in the elementary school; to evaluate the ordinary examination and find ways to improve it; to acquaint the student with the outstanding standardized tests now in use in the elementary school; to determine the advantages and disadvantages of standardized examinations; to develop some degree of skill in the construction and administration of tests; to familiarize the student with the elementary statistical procedures necessary for an adequate understanding of the results of a testing program in the elementary school.

Topics: Historical survey of the development of mental and educational tests in the elementary school; the nature and classification of standardized tests; the construction of tests; the importance

of accuracy of measurement; reliability; validity; the place of standardized measurements in the elementary testing program; standards for the selection of tests; interpretation of test data; the use of test results for comparison, classification, promotion, guidance, diagnosis, and for measuring the efficiency of instruction.

Education 421b. Tests and Measurements for the Secondary School. **Two hours.**

Purpose: To determine the need for accuracy in measurement in the secondary school; to evaluate the traditional type of examination and find ways to improve it; to acquaint the student with the most important standardized tests for the secondary school; to study the advantages and disadvantages of standardized measures; to develop some degree of skill in the construction and use of tests; to familiarize the student with elementary statistical procedures; to show the social, educational, and vocational significance of tests in the secondary school.

Topics: Elementary statistical procedures; historical survey of the development of mental and educational tests in the secondary school; the nature and classification of tests; the construction and use of tests; reliability; validity; the importance of standardized measures; methods of improving the traditional type of examination; standards for the selection of tests; the use of test results for comparison, classification, promotion, guidance, prognosis, diagnosis; measuring the efficiency of teaching in the secondary school, and the like.

Education 422. Mental Hygiene. **Two hours.**

Purpose: To acquaint students with the psychology of adjustment and of mental health.

Topics: Development of mental hygiene, origins of behavior, varieties of maladjustments, techniques of mental hygiene, and applications of positive mental hygiene.

Education 423. (Formerly Education 223.) Principalship. **Three hours.**

Purpose: The purpose of this course is (a) to give the student a knowledge of the problems of the principal, (b) to study and evaluate the activities and responsibilities of the principal, (c) to acquaint the student with the relation of the principal to teaching, supervision, community activities, and the teaching profession, and (d) to present some of the outstanding problems in the administration and supervision of the elementary and secondary schools.

Topics: History and philosophy of the twelve-grade common school, training of the principal, leadership functions of the principal, office organization for business administration, classification of pupils, pupil progress and promotion, administration of buildings and grounds, adaptation of courses of study to individual needs, purchase of supplies and equipment, establishment and administration of

libraries, supervision of teaching-learning, measuring the work of the twelve-grade school, problems of transportation, importance of maintaining friendly public relations, problems of articulation and integration and unification, problems of athletics, extra-curricular activities, and guidance.

Education 441. (Formerly Education 341.) The Elementary School Curriculum. **Three hours.**

Purpose: (a) To acquaint the student with the literature on curriculum construction, and (b) to develop fundamental principles which underlie the construction and interpretation of the curriculum and to apply these principles to the organization of specific units of subject matter.

Topics: Objectives of education, function of the school, function of the curriculum, the curriculum as related to the objectives of education, criteria for evaluating curricula, and need and procedure for curriculum construction and revision.

Education 442. Organization and Administration of Elementary Education. **Three hours.**

Purpose: To present the important phases of the organization and administration of the elementary school.

Topics: Aims and objectives of the elementary school, types of elementary school organization, time allotments, attendance, library service, classification and promotion of pupils, health, publicity, special classes, plant, office management, organization for supervision, the principal and his opportunity for leadership.

Education 451. (Formerly Education 351.) Rural School Supervision. **Three hours.**

Purposes: (a) To emphasize the need for the supervision of instruction in rural schools, (b) to assist the student in planning and administering a desirable supervisory program, (c) to give instruction in the use of the various agencies of supervision, and (d) to study the proper function of the supervisor and to show how supervision can best serve country teachers.

Topics: Distinction between supervision and administration; nature and problems of supervision; status of rural school supervision in a few representative states; handicaps and possibilities of the rural school; purposes and principles of supervision; preparation of a constructive supervisory program; organization of the school; relation of the school to the community; gradation and classification of pupils; studying the teacher at work; improvement of teaching through better selection and organization of subject matter; evaluating the efficiency of teachers and supervisors; training and personality of supervisors; ways of measuring supervision; use of circular letters, bulletins, school publicity, demonstration teaching, teachers' meetings, school and classroom visitation, personal conferences, constructive criticism, summer school attendance, extension and corre-

spondence work; tests and measurements, research and experimentation, school exhibits and clubs, intervisitation, and professional reading as agencies of supervision. Throughout the course the improvement of teachers in service is emphasized. Each member of the class is expected to plan a careful program of supervision for a county in Kentucky as a project in connection with the course.

Education 452. (Formerly Education 352.) County School Administration. **Three hours.**

Purposes: (a) To acquaint the student with some of the fundamental problems connected with the administration of county schools, (b) to present a desirable philosophy of rural education, and (c) to familiarize the student with the growing importance of the county superintendency.

Topics: The relation between the state and the county in the administration of schools; powers, duties, and qualifications of the county superintendent; powers, duties and qualifications of the members of the county board of education; school organization and control; the county unit system; the school plant, location, equipment, and care of buildings; consolidation of schools; standardization of rural schools; health program for rural schools; curriculum problems; playgrounds and playground equipment; problems of small schools, especially of one-, two- and three-teacher schools; the junior high school in rural areas; the county high school; community and county organization; the county superintendent's office, needed space and proper equipment; duties of the county superintendent as secretary of the county board; relations between the superintendent and the board; bookkeeping of the county superintendent; budget-making; making the salary schedule; selection, placement, and promotion of teachers; child accounting and attendance problems; records and reports; filing records and reports; the proper recording of the minutes and orders of the board; the distribution of funds; school costs and financial accounting; business management; correspondence, office hours, and miscellaneous office routine; office assistants and duties assigned each.

Education 461. High School Administration. **Three hours.**

Purpose: To present the fundamental principles of high school organization and administration.

Topics: Secondary school organization, the principal, the staff, the pupils, program of studies, schedules, community relationships, records and reports, articulation, library, plant, finance, and other important topics pertaining to the high school.

Education 463. (Formerly Education 363.) Student Teaching. **Three, six, or eight hours.**

Prerequisites: Education 261, 263, or 364.

Purpose: The purpose of this course is (1) to develop the skills, techniques, and controls necessary to successful classroom teaching,

and (2) to acquaint the student teacher with modern devices, materials, and methods of teaching.

Topics: The student teacher observes the activities of the classroom, studies the children and the subject matter he intends to teach. Lesson plans are made under the direction of the critic teacher and directions are given by the critic teacher for the performance of routine duties. Student teachers meet the training teacher under whom they work for one hour of conference period daily.

Education 464. Principles of Secondary Education. **Three hours.**

Purpose: (a) To acquaint the student with the development of our present system of secondary education and its implications, (b) to present a desirable philosophy of secondary education, (c) to present some of the outstanding problems in the secondary school, (d) to analyze the present curriculums with hope of improving the same.

Topics: Growth and background of American secondary school, variability and selection of the pupil, aims and functions of secondary education, relation to elementary and higher education, forms of organization, comparison between European and American schools, the rural high school, vocational education, trends and methods of curriculum construction, the secondary school offerings, extra curricular activities, guidance and community relationship, the staff, plant and library, cost, a vision of secondary education.

Philosophy

Mr. Kinzer

Philosophy 301. History of Philosophy. **Three hours.**

Purpose: To present the important developments in the field of philosophy prior to the Renaissance.

Topics: A survey of the development of philosophy from Plato to the thirteenth century, with special study of Aristotle, Lucretius, and Thomas Aquinas.

Philosophy 302. History of Philosophy. **Three hours.**

Purpose: To present the important developments in the field of philosophy from the Renaissance to the present.

Topics: A survey of the development of modern philosophy from the Renaissance to the present with special study of Spinoza, Leibniz, Hume, and others.

Psychology

Psychology 211. General Psychology. **Three hours.**

Purpose: (a) To present the problems, methods, and facts of psychology as a science; (b) to show applications of psychology; (c) to teach students to apply psychological principles to situations in which they may be helpful.

Topics: The problems, methods, and subject matter of psychology; the physiological basis of reactions; native and acquired urges; the nature of instincts and emotions; adjustments; laws of learning; economy in learning; general intelligence and special aptitudes; personality; individuality; applications of psychology.

DIVISION OF HEALTH AND PHYSICAL EDUCATION

Dr. Farris
Mr. Carter
Miss Cherry
Mr. Hembree
Miss Hood
Mr. Hughes
Mr. McDonough
Mr. Rankin
Mr. Samuels
Miss White

Health

Dr. Farris
Mr. Carter
Mr. Hembree
Miss Hood
Mr. Hughes
Mr. McDonough
Miss White

Health 100. Personal Hygiene. **Two hours.** Women, first semester; men, second semester.

Purpose: This course is designed to teach the student the value of correct living habits.

Topics: Structure and care of the human body; desirable health practices; value of health examinations; the place of health in modern civilization; unscientific and irrational health proposals; disease prevention by immunization; disease control by isolation and quarantine, etc.

Health 101. Public Hygiene. **Three hours.**

Purpose: To study the fundamental principles of public hygiene and disease prevention and applications of these principles in solving problems of Home Sanitation and Public Health.

Topics: Micro-organisms in relation to sanitation, personal and public hygiene, food protection and preservation, the protection of the water and milk supply, immunization and control of communicable diseases, home and school sanitation; social and economic aspects of health problems, health administration, function and authority of health officers, etc.

Health 202. First Aid to the Injured. **One hour,** Fee, 50c.

Purpose: To prepare the prospective teacher, by demonstration and practice; to treat the emergencies which present themselves in the schoolroom, on the playground, and on the athletic field.

Topics: Bandaging, transportation of injured, artificial respiration, splinting, treatment of shock, injuries in home, wounds, and accident prevention.

Health 231. Home Nursing. (Formerly Home Economics 231.) **Two hours.**

Prerequisite: Health 100 or 101.

Purpose: To enable girls to administer first aid and to teach the home care of the sick.

Topics: Duties of a home nurse; preparation and care of the room for a patient; study of pulse, respiration, etc.; bathing patients in bed; making of beds; simple home-made appliances for the comfort of a patient; special treatment for particular and peculiar illnesses; serving of meals to patients; first aid treatments.

Health 303. Applied Bacteriology. **Five hours.**

Purpose: This is an introductory course in Bacteriology in which the student is taught the relationship between bacteria and human welfare.

Topics: Stains and staining technique, sterilization, preparation of culture media, isolation and identification of bacteria, efficiency of disinfectants and control of communicable diseases, and determination of the sanitary quality of milk and water. Some pathogens will be introduced for purposes of laboratory study, etc.

Health 362. Individual Gymnastics. **Two hours.** Fee 50c.

Purpose: Adaptation of exercises to the individual needs of the student.

Topics: Diagnosis and prescription of exercise for deformities of the human body; examination records and equipment; corrective exercises for individuals and groups.

Health 365. Materials and Methods for Teaching Health Education. **Two hours.**

Purpose: A presentation of the general principles which should govern the selection and organization of health materials. Methods for the teaching of health are discussed and observed.

Topics: General objectives of the health program, health set-ups and practices, and materials suitable for primary and intermediate grades.

Health 404. Microbiology of Foods. **Five hours.**

Prerequisite: Health 303.

Purpose: To study control measures for micro-organisms responsible in food spoilage and food poisoning.

Topics: Fermentation, food poisoning, food preservation, canning, pickling, and use of chemicals in food preservation.

Health 460. Health Protection and Instruction in the Secondary School. **Two hours.**

Purpose: A course designed to acquaint the student with existing practices in Health Education.

Topics: Principles, organization and administration of the school health program, and the presentation of materials suitable for use in the junior and senior high schools.

Physical Education

Mr. McDonough Miss Hood Mr. Rankin
Miss Cherry Mr. Hughes Mr. Samuels
Mr. Hembree

Physics Education 110. Fundamental Physical Education Activities. **One-half hour credit.** Fee, 50c.

Purpose: To cultivate in the individual a desirable attitude toward play in relation to the proper use of leisure time, and to teach activities which will be of value to the teacher in the primary and intermediate grades.

Activities: Section A. Plays, games and story plays.
Section B. Women.—Folk games and rhythms.
Men.—Team games—fundamental skills and tests.

Physical Education 200. Fundamental Physical Education Activities. **One-half hour credit.** Fee, 50c.

Purpose: To cultivate in the student a desirable attitude toward play in relation to the proper use of leisure time.

Activities: Section C. Swimming.
Section D. Women.—Team games—fundamental sport and self-testing activities.
Men.—Self-testing activities—combatative activities or rhythms.

Physical Education 250. Scouting and Clubcraft. **Three hours.** (Men.) Fee, 50c.

Purpose: This course is intended for those interested in becoming scoutmasters. Club work is also taken into consideration.

Topics: Study of specific community and recreational programs; history and principles of scouting. Practical scoutcraft and clubcraft is emphasized; scoutmaster's certificate is awarded to each student completing the course.

Physical Education 251. Clubcraft. **Three hours.** (Women.) Fee, 50c.

Purpose: This course is offered so as to acquaint the teacher with a background of the theory and practice of club work and recreation in general.

Topics: Girl scouts, girl reserves, camping, fire and woodcraft organizations.

Physical Education 260. Coaching Football and Basketball. **Two hours.** (Men.) Football, first nine weeks; basketball, second nine weeks.)

Purpose: A course offered to give players and prospective coaches a practical and theoretical background.

Topics and Activities: General principles, systems, rules, and officiating equipment and schedules.

Physical Education 265. Coaching Spring Sports. **Two hours.** (Men.) (Track and field, first nine weeks; baseball, second nine weeks.)

Purpose: A course designed to give players and prospective coaches a practical and theoretical background.

Topics and Activities: General principles, coaching hints, training methods, organization of field days, equipment, and schedules.

Physical Education 275. Clog and Character Dancing. **One hour.** Fee, 50c.

Purpose: Teaching dances and rhythmic steps of a vigorous nature.

Activities: Stunts, athletic dancing; folk, character and clog steps.

Physical Education 276. (New.) Advanced Cloging. **One hour.** Fee, 50c.

Prerequisite: Physical Education 275.

Purpose: Teaching dances and rhythmic steps of a vigorous nature.

Activities: Advanced clogs and athletic dances.

Physical Education 300. Folk and National Dancing. **One hour.** Fee, 50c.

Purpose: To acquaint the student with representative folk and national dances.

Topics: American and English country dances, Morris and sword dances, and other national dances.

Physical Education 320. Kinesiology. **Two hours.**

Purpose: This course is designed to teach the student the fundamentals of body mechanics.

Topics: Analysis of balance and movements of human body; application of physical laws and principles governing the mechanics of movement; actions of joints and muscles is studied in natural movements and organized activities.

Physical Education 325. Physiology of Activity. **Two hours.**

Purpose: A course for the study of the effects of physical education activities on the various systems of the human body

Topics: Growth and development; effects of bodily exercise on bodily functions; circulation and its adaptation to physical exertion; bodily temperature control; training; second wind, fatigue, and recovery in man.

Physical Education 366. (Formerly Physical Education 266.) Materials and Methods for Teaching Physical Education. **Two hours.**

Purpose: A course designed for the classroom teacher and for playground leaders.

Topics: Theories of play, study of existing play programs, correlation with other subjects, achievement standards and tests, games, skills, lesson planning and observation, and a review of materials and activities suitable for the primary and intermediate grades.

Physical Education 367. (Formerly Physical Education 267.) Physical Training Activities. **Two hours.** Fee, 50c.

Purpose: It is designed for those contemplating leadership in physical education.

Topics: Tactics, dancing, free exercise, hand apparatus, mimetics and games, and stunts.

Physical Education 368. (Formerly Physical Education 268.) Advanced Physical Training Activities. **Two hours.** Fee, 50c.

Prerequisite: Physical Education 367.

Purpose: Continuation of Physical Education 367.

Topics: Advanced tactics, drills for demonstration, natural exercises, pyramid building, games, opportunity for leadership and observation.

Physical Education 401. Community Recreation. **Three hours.**

Purpose: The study of what the schools and communities are doing and can do in meeting the leisure time needs of today and tomorrow.

Topics: The problem of leisure; vacation time for children; adult recreation; content of school programs for leisure education; physical education, dramatics, reading, music, art and handcrafts, nature study, and extra curricular activities.

Physical Education 402. Community Recreation. **Three hours.**

Purpose: The study of what the schools and communities are doing and can do in meeting the leisure time needs of today and tomorrow.

Topics: Practice and observation of existing recreational facilities: playground, swimming pool, social centers, C.C.C. and N.Y.A. programs; introduction and contact with specialists in various recreational fields; governmental and semi-private agencies promoting recreation.

Physical Education 463. (Formerly Physical Education 363.) History and Principles of Physical Education. **Three hours.**

Purpose: This course seeks to establish the place of physical education and to indicate its indispensable character in modern life.

Topics: History of Physical Education, sources and data of principles, aims and objectives, psychology of Physical Education, and standards and tests.

Physical Education 468. (Formerly Physical Education 368.) Administration and Organization of Physical Education. **Two hours.**

Prerequisites: Physical Education 366, 367, 368.

Purpose: This course is designed for minors and majors in health and physical education, and deals with mediums through which activity may be organized in junior and senior high schools.

Topics: Intramurals, sport days, festivals, and community play days; incentives; point systems; grading, awards, standards, etc.; tests and measurements; care of gymnasium and equipment; activities suitable for junior and senior high school pupils.

DIVISION OF LANGUAGES

Mr. Clark
Mrs. Barnhill
Miss Buchanan
Mr. Keene
Mr. Hounchell
Mrs. Murbach
Miss Owens
Miss Rush

English

Mr. Clark
Mrs. Barnhill
Miss Buchanan
Mr. Hounchell
Mr. Keene

English 101. Oral and Written Composition. **Three hours.**

Purpose: To insure the learning and habitual practice of mechanical correctness of language in all ordinary speech and writing situations, and to develop student ability of self-criticism in matters of such correctness.

Topics: Recognition drills on parts of speech, inflected forms, phrases, clauses, the whole sentence; construction and syntax of chief inflected forms; sentence analysis; sentence construction; sentence variety; subordination; punctuation; dictionary study of accent and diacritical marks; spelling drills in most commonly misspelled words; paragraph writing; laboratory theme writing exercises; additional drills on all common types of mechanical language errors; brief narrative and expository talks on subjects within personal observation and experiences.

English 102. Oral and Written Composition. **Three hours.**

Prerequisite: English 101.

Purpose: To help the student in the matter of clear thinking and effective use of language.

Topics: The evaluation of what we see and hear; accuracy of observation and statement; the clarifying of our thoughts and impressions; the selection and use of materials; the planning and construction of many oral and written themes.

English 163. Fundamentals of Speech. **Three hours.**

Prerequisite: English 101.

Purpose: To enable teachers to acquire for themselves attractive voices and pleasing speech habits for reading and speaking, and to equip them for developing these qualities in their pupils.

Topics: Corrective drill work for posture and movement; the applied science of voice production; characteristics of a pleasing voice; individual diagnosis of voice qualities; tone-placing; enunciation; pronunciation; pitch, stress, and volume. The course affords much practice in individual speaking and reading under careful, constructive criticism.

English 201. Journalism. **Two hours.**

Prerequisites: English 101 and 102.

Purpose: To teach the student how to read and judge a newspaper; to familiarize him with the best current newspapers, their policies, and their methods; to give instruction in the kinds and methods of journalistic writing and practice in writing; to show him how to make up a paper, write headlines, and prepare manuscript; to give some training in managing and advising school publications; to edit a paper.

Topics: Comparison of many newspapers as to amount and kind of news, make-up, size, type, headlines, advertising, tone, etc.; kinds and methods of journalistic writing and practice in each; headlines; make-up; copy, proofreading; organization of staff.

English 216. (Formerly English 316.) The Short Story. **Two hours.**

Prerequisites: Freshman English and one course in literature.

Purpose: To compare many types of stories and methods of construction, to present the development of the short story, to acquaint the student with the best stories of the world and the best writers of stories, to set up some criteria for judging a short story.

Topics: The technique of the short story, the development of the short story as a literary type, romanticism and realism in stories, the short story in America, short stories for the high school, the writing of a story or of a paper.

English 218. Survey of Literature I. **Three hours.**

Prerequisites: English 101 and 102.

Purpose: To bring within student experience the content of selected world literature from ancient times to the end of the Renaissance, considered against the background of the life, tradition and history of the various peoples and periods presented; to trace the development of the chief types of literature; to give some guidance in literary appreciation and in the selecting of suitable material from this field for the upper grades and high school.

Topics: Oriental literature, Hebrew religious literature, the popular epic and the literary epic, classical drama, Teutonic myth and saga, medieval legend and romance, rise of religious drama, Italy and the Renaissance, rise of lyrical poetry, history and biography, philosophical writings, Renaissance drama in England; satiric narrative prose.

English 219. Survey of Literature II. **Three hours.**

Prerequisites: English 101, 102, and 218.

Purpose: To continue the method of study as outlined in English 218, to apply this method to the major movements and trends in the literature of Western Europe and America in the eighteenth and nineteenth centuries.

Topics: The New Classicism; the Romantic Movement in France, Germany, England, and America; the great Victorians; the rise of

realism in France and Russia; its extension in England and America; Ibsen and the modern drama.

English 231. Public Speaking. **Three hours.**

Prerequisites: English 101 and 102.

Purpose: To train students for effective participation in the normal speaking situations.

Topics: Physiological basis of voice and corrective voice drills; source and organization of speech materials; objectives and audience considerations; practice in preparation and delivery of speeches for various occasions, purposes and audiences; speech criticism; parliamentary procedure with participation drills.

English 261. Literature for Primary Grades. **Three hours.**

Prerequisites: English 101 and 102.

Purpose: To pursue a somewhat systematic study of children's literature in order that the primary teacher may know and appreciate the best in this particular field.

To give the student a rich background from a rather wide reading of children's books in order that she may be capable of guiding children's reading.

Topics: The course includes a brief survey of the history of children's literature and a study of the literature itself under the following topics: Mother Goose, Fairy Tales, Folklore and Fables, Realistic and Fanciful stories, and children's poetry. Picture books and modern illustrators of children's books will also be studied. Methods of teaching literature in the primary grades are incidentally touched upon.

English 264. Story Telling. **Two hours.**

Prerequisite: English 261.

Purpose: To acquaint the teacher with the materials for story telling, and with the techniques to be used in different grades and with different audiences.

Topics: History of story telling; purpose and aim of story telling; the story interests of childhood; preparing the story; telling the story; condensing and expanding the story; dramatizing the story; uses of the story in schoolroom subjects; technique suitable to various ages and types of children; technique required for adults. A considerable stock of stories of a wide range of appeal is mastered. Much practice is given the actual telling of stories to children. Constructive analysis of each student's performance is afforded.

English 265. (Formerly English 165.) Grammar for Teachers. **Two hours.**

Prerequisites: English 101 and 102.

Purpose: To review the principles of English grammar and acquaint the teacher with some of the problems connected with the teaching of grammar.

Topics: In the course are studied the parts of speech, syntax and sentence analysis. The history of the teaching of grammar, and methods of testing and measuring progress are also touched upon.

English 266. Literature for the Intermediate Grades. **Three hours.**

Prerequisites: English 101 and 102.

Purpose: To offer the student opportunity for making a wide acquaintance with books for children of the intermediate grades so that they may share more fully with the children the pleasures of good reading.

Topics: This course includes extensive reading of the following types of children's literature; myths, epics and sagas, the romance cycles, poetry, fiction, biography, historical and geographical literature. The study will be sufficiently detailed to give a good basis for the appreciation, selection, and presentation of the best and most suitable material for the intermediate grades.

English 301. Advanced Composition. **Three hours.** Required of juniors and seniors who have less than six hours of freshman English.

Purpose: To give the teacher practice in collecting, organizing, and presenting material in an effective written form; to encourage creative writing.

Topics: Practice is given in writing reports, recommendations, research papers, familiar essays, short stories, feature articles, or other forms of journalistic writing. Students are urged to write with a view to submitting their articles to suitable periodicals for publication. Some attention is given to the materials for high school composition.

English 305. (Formerly English 205.) Argumentation. **Three hours**

Prerequisites: English 101 and 102.

Purpose: To teach how to recognize, build, and present sound argument; to show the relation of persuasion to argument.

Topics: This course takes up analysis, evidence and proof, kinds of argument; fallacies, brief-drawing, platform technique, reports on lectures, political speeches, etc., and the writing of a forensic.

English 311. Shakespeare. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To give the student a knowledge of the technique and content of Shakespeare's dramas, and a knowledge of Shakespeare's English and of his contemporaries, to consider certain of his dramas with reference to their place in high school English.

Topics: The course includes an extensive reading of Shakespeare's dramas and an intensive study of the technique, sources, and content of a few; a discussion of the Elizabethan theatre, the Elizabethan people, Elizabethan dramatics, movements, and events which

influenced Elizabethan thought; the development of drama to the death of Shakespeare; elements of appeal to high school pupils.

English 312. (Formerly English 412.) Modern Drama. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To acquaint the student with modern tendencies in drama; to give him a knowledge of movements and influences which have combined to make our drama what it is today; to familiarize him with the best modern drama and dramatists of all countries; to help him establish some criteria for judging drama.

English 314. The Novel. **Three hours.**

Prerequisites: Freshman English and at least one course in literature.

Purpose: To acquaint the student with some of the choicest fiction of England and America, to interest him in that of other countries, and to raise the level of his taste in novels.

Topics: The development of the novel in England and America; the distinction between the romance and the psychological novel, and the place of each in our reading; some characteristics of harmful and worthless fiction; some tendencies of present-day novelists.

English 315. (Formerly English 215.) Nineteenth Century Essayists. **Two hours.**

Prerequisites: Freshman English and at least one course in literature.

Purpose: To familiarize the teacher with the work of the great essayists of the nineteenth century, and to show how varied was the thought for which the essay was the vehicle of expression.

Topics: This course includes a study of representative essays of the leading English and American essayists of the nineteenth century, with attention on the types of essays, and the literary, social, political, and religious or moral ideals set forth in the essays; and analysis of the prose style of some of the essayists; oral and written reports.

English 317. (Formerly English 217.) Contemporary Literature. **Three hours.**

Prerequisites: Freshman English and at least one course in literature.

Purpose: The purpose of this course is to acquaint the student with the literary tendencies of the last decade and to foster a discriminating attitude toward current literature.

Topics: New names, new influences, and new trends, and the relation of these to former periods in the development of literature; the relative importance of old and new books; the proper emphasis upon literature of escape and that of self-realization; the evaluation of current literature; advantages and limitations of book-review and

commercial organizations designed to assist in the selection of new books; the place of newspapers and magazines in our reading during leisure hours. The reading for this course is extensive rather than intensive and is not confined to the literature of any one type nor of any one nation.

English 318. (Formerly English 213.) American Literature. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To acquaint student with American life and thought as reflected in the best representative American writers, considered in relation to environmental influences and prevailing literary tendencies from pioneer to recent times; to develop some degree of literary discrimination; to help students select suitable material from this field for the upper grades and high school.

Topics: The pioneer spirit in religious, historical and journalistic writings; literature of the Revolution; statesmanship of the new nation; nineteenth century Romanticism; Transcendentialism; disunion and reunion; growth of a realistic spirit; literature of local color; contemporary literature of realism and revolt; such readings in literary history and biography as may be helpful in an understanding of the literature studies, values and elements of appeal for the upper grades and high school.

English 321. Romantic and Victorian Poets. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To trace the development and culmination of the Romantic Movement and present the various elements that compose it; to familiarize the student with the main characteristics of Victorianism as revealed in its leading poets; to help the student interpret the spirit of these periods through their poetry.

Topics: The rise of Romanticism; Wordsworth and Coleridge; Scott and Southey and Byron; Shelley and Keats; social, religious, industrial and intellectual unrest; the Oxford Movement; the Pre-Raphaelite Brotherhood; Tennyson; the Brownings; Arnold and religious unrest; Swineburne, Morris, and the Rossettis.

English 362. (Formerly English 262.) Play Production. **Three hours.**

Prerequisites: English 101 and 102.

Purpose: To prepare the student to produce plays in school and community organizations.

Topics: Organization and duties of the producing staff; costuming and make-up; theory of scenery construction; use of color on stage; lighting equipment; choosing plays and casts; rehearsing; collateral reading in the theory of play coaching and in plays suitable for amateur production. Wherever possible, practical work in public presentations will be afforded.

English 421. Renaissance and Elizabethan Literature. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To give the student a fuller understanding of the Renaissance movement and of its manifestations in English literature and life, to acquaint him with a large number of writers of the early Renaissance and Elizabethan ages, and to familiarize him with as many as possible of the most important writers and writings.

Topics: The spirit of the Renaissance; the influence of Italian and other continental literatures; the early English humanists; Elizabethan enthusiasm; Elizabethan language; new literary influences; chief literary forms; Spencer, Sidney, Bacon, Marlowe, Shakespeare, Johnson; other dramatists and lyrists.

English 423. (Formerly English 323.) Milton and the Puritan Period. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To acqaint the student with the poetic genius, philosophy, and ideals of Milton; to present the whole body of his poetry; to present the Puritan Age as a whole.

Topics: The course includes a study of the life of Milton as it affected his writing; his earlier poetry; the development of his genius; the great epic Paradise Lost and its interpretation; Paradise Regained and Samson Agonistes; other writers of the period.

English 424. (Formerly English 324.) Chaucer and Medieval Story. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To acquaint the student with the rich field of narrative literature of the Middle Ages, and to show how much of this literature is illustrated in the poetry of Chaucer.

Topics: The course consists chiefly of a study of the various types of medieval story—the folk-epic, the beast tale, the metrical romance, the fabliau, the saint's legend, and the ballad; and of the social and moral ideals which they reveal.

English 425. The Age of Classicism. **Three hours.**

Prerequisites: Freshman English and two courses in literature.

Purpose: To trace the development of the classic spirit in English literature from 1660 to 1784; to study classicism as a literary force; to acquaint the student with the leading expressions of English classicism; to interpret the life and spirit of the period through these writings.

Topics: Social backgrounds of classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; French and Graeco-Roman influences; the literary dictatorship of Dr. Johnson; the decay of literary patronage; new tendencies in Thompson, Cowper, Gray, Chatterton, Goldsmith, and Crabbe.

English 435. (Formerly English 335.) Interpretative Reading. **Three hours.**

Prerequisites: Nine hours of English, including English 163 or its equivalent.

Purpose: To enable teachers to interpret literature in classroom and platform reading, and to prepare them to train their pupils in interpretative reading.

Topics: Types of interpretation; gesture; pantomime; resonance; flexibility range; study of enunciation and pronunciation continued; sources of materials; criteria for selecting readings, for preparing contestants and readers, and for judging contests. Much individual work under careful direction is afforded.

English 441. (Formerly English 341.) History of the English Language. **Three hours.**

Prerequisite: Two years of work in English toward a major or first minor in English.

Purpose: To acquaint the student with the way the English language developed.

Topics: The family of languages; the Old English period; the Middle English period; modern English; the foreign and native elements in English; history of English vowel sounds; mutation and gradation; the consonants; English inflections; English accent; collateral readings in the less technical works on the English language.

English 461. (Formerly English 361.) Kentucky Literature. **Two hours.**

Prerequisites: English 101, 102, one survey course.

Purpose: To acquaint the student with the literature produced by Kentucky writers; to relate this literature to American literature in general.

Topics: The economic, political, social, and religious background of the early Kentuckians as expressed in their writings; ante bellum literature, the influence of the War between the States; the rise of the local color fiction group; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom.

An opportunity will be offered to familiarize the student with the John Wilson Townsend Collection.

French

Mrs. Murbach Miss Owens

French 101. (Formerly French 151.) Elementary French. **Three hours.**

Purpose: To begin the study of the structure of one of the great living languages and to arouse interest in French literature by the early reading of excerpts from the French classics.

Topics: Phonetics, pronunciation, vocabulary, parts of speech, sentence structure, conversation in French on material studied in a reader.

French 102. (Formerly French 152.) Elementary French. **Three hours.**

Prerequisite: French 101 or one unit of high school French.

Purpose: To continue the study begun in French 101.

Topics: Continuation of the study of grammar begun in French 101, two hundred pages of reading material serving as basis for oral work.

French 201. (Formerly French 251.) Intermediate French. **Three hours.**

Prerequisites: French 101 and 102 or two units of high school French.

Purpose: To increase skill in translating and writing French and in comprehending and using the spoken French.

Topics: Grammar review, short history of French literature, and translation of news items in a French newspaper.

French 202. (Formerly French 252.) Intermediate French. **Three hours.**

Prerequisite: French 201 or three units of high school French.

Purpose: To continue the study begun in French 201.

Topics: Grammar review, French newspaper, and the French classics.

French 203. (Formerly Foreign Language 253.) French Civilization. **Two hours.**

Purpose: This course is designed to give the student an insight into French thought by review of the social conditions from which it has evolved. It is conducted entirely in English.

Topics: Lectures and assigned readings on French history, politics, art, literature and music.

French 301. (Formerly French 254.) French Prose Classics. **Three hours.**

Prerequisite: Two years of college French or the equivalent.

Purpose. To develop power to read French rapidly, to increase facility in the use of spoken French, and to add to the student's knowledge of French literature.

Topics: "Intensive" reading of a number of French prose classics with emphasis on the language structure, and "extensive" reading of works by representative prose writers from the Middle Ages to the nineteenth century.

French 302. (Formerly French 255.) French Prose Classics. **Three hours.**

Prerequisite: French 301 or its equivalent.

Purpose: To continue the study begun in French 301.

Topics: Study of selected prose works of the nineteenth and twentieth centuries.

French 401. French Drama and Poetry. **Three hours.**

Prerequisite: Two years of college French or its equivalent.

Purpose: To follow the rich stream of French drama and poetry from the Middle Ages to the nineteenth century, and to develop the student's capacity to express his opinions in French on the works which he is studying.

Topics: The medieval period, the Renaissance, the Golden Age, the critical eighteenth century.

French 402. French Drama and Poetry. **Three hours.**

Prerequisite: French 401, or its equivalent.

Purpose: To continue the study begun in French 401.

Topics: Romanticism, realism, the Parnassus school, symbolism, and contemporary tendencies in poetry and drama.

French 403. (Formerly French 350.) French Seminar. **Three hours.**

Prerequisite: Eighteen hours college French.

Purpose: This course is designed to round out as much as possible the major work in French, giving a view of the subject as a whole, supplementing at points which have of necessity been neglected and discussing problems for study in the future as the student goes into the teaching field or the graduate school.

Topics: (a) Review of the great schools of prose, drama and poetry; (b) wide readings in contemporary literature; (c) conversation in the salon manner on problems of interest to the language student.

French 404. Advanced French Grammar and Composition. **Three hours.**

Purpose: The aim of this course is to review the techniques of French composition, and to encourage independent writing on the part of the student.

Topics: (a) Review of phonetics and grammar, (b) compositions on assigned subjects in French literature.

German

Mrs. Murbach Miss Owens

German 101. Elementary German. **Three hours.**

Purpose: To introduce the student to one of the great modern languages.

Topics: Grammar, pronunciation, reading of easy German.

German 102. Elementary German. **Three hours.**

Prerequisite: German 101 or one unit of high school German.

Purpose: To continue the study begun in German 101.

Topics: Continuation of the study begun in German 101 with increased emphasis on reading.

German 201. Intermediate German. **Three hours.**

Prerequisites: German 101 and 102 or two units of high school German.

Purpose: To widen the student's knowledge of and interest in the German language with special emphasis on reading.

Topics: Review of grammar; reading of several German classics.

German 202. Intermediate German. **Three hours.**

Prerequisite: German 201 or three units of high school German.

Purpose: To continue the study begun in German 101 and 102.

Topics: Continued study of grammar and increased amounts of intensive and extensive reading.

Latin

Miss Rush

Latin 115. Elementary Latin. **Three hours.**

Not open to students who presented Latin for college entrance.

Purpose: This course is organized to meet the need of those students who have had no Latin in high school and wish to begin the study of it in college that they may acquaint themselves with the mechanics of Latin to: (a) satisfy the language requirement for (1) a degree, (2) a major in English, (3) a major in Foreign Language; (b) satisfy pre-medical or other pre-professional requirements; (c) begin a study of the language for its general cultural value.

Topics: (a) Pronunciation; declension of nouns, adjectives and pronouns; indicatives and infinitives of all conjugations with the simple uses of the subjunctive; (b) acquisition of the fundamental principles of the language and the ability to read simple Latin prose dealing with Roman home life, mythology and Roman history.

Latin 116. Intermediate Latin. **Three hours.**

Prerequisite: One unit of high school Latin or Latin 115.

Purpose: This course is a continuation of Latin 115.

Topics: (a) Selections read in Latin are from Caesar and a wide range of authors of equal difficulties, with a continued emphasis on mastery of vocabulary, inflection, syntax, and their application to English; (b) collateral reading on Roman history and society; (c) training in the understanding of Latin in the Latin order.

Latin 205. Vergil's Æneid. **Three hours.**

Prerequisites: Open to students presenting two or three units of Latin for entrance or to those who have completed Latin 115 and 116.

Purpose: (a) To introduce the student to Latin poetry; (b) to give continued practice in the reading and translation of Latin; (c) to develop an appreciation for Vergil's place in Latin literature; the

Æneid, its story, its dramatic setting and background; its influence on later, and especially, English literature; its historical and mythological references.

Topics: (a) Selections from the twelve books of the Æneid of Vergil; (b) selections from other works of Vergil for comparative study; (c) study of Augustan age; (d) study of metrical form and structure of the poem, scansion and reading of dactylic hexameter; (e) study of some of allusions in English literature to Vergil's Æneid; along with this work, there is a thorough grounding of the student in the inflections and constructions of Latin.

Latin 301. (Formerly Latin 104.) Selections from Livey. **Three hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Purpose: (a) To develop the power of rapid translation for information; (b) to gain first hand acquaintance with the source books of Roman history; (c) to acquire correct pronunciation and habit of reading the original Latin text.

Topics: (a) Survey of Roman history from foundation of Rome to close of second Punic War as related to Livy's History Books, I, XXI, and XXII; (b) assigned readings from such historians as Mommsen, Heitland and others; (c) cursory examination of Livy's source material; (d) comparative study of Rome and Carthage; (e) critical study of Livy's style.

Latin 302. (Formerly Latin 108.) Selections from Horace. **Three hours.**

Prerequisite: Three units of high school Latin, or the equivalent.

Purpose: (a) To afford the student a comparative view of the Augustan Age, the most brilliant period of Latin literature; (b) to develop appreciation for the metrical perfection of Horace and his contemporaries; (c) to emphasize as in Latin 301 the value of reading from the Latin text, both for metrical values and pronunciation habits.

Topics: (a) Selected Odes, Epodes and Satires of Horace; (b) selections from Catullus for comparative study; (c) study of Augustan Age, both from a literary point of view and political; (d) study of Horace's personality, point of view and philosophy of life; (e) comparison between the Rome of Horace and the city of today; (f) study of various metres employed by Horace, with special attention to the Greek examples; (g) study of translation for poetic appreciation, with study of English translation of Horace's poems.

Latin 303. The Writing of Latin Prose. **Three hours.**

Prerequisite: Latin 301 or the equivalent.

Purpose: (a) To afford a review of the principles of grammar and syntax; (b) to provide for formation of proper habits of sight reading; (c) the writing of simple Latin prose.

Topics: Selections from the text, "Arnold's Latin Prose". One hour each week is devoted to review of principles of syntax and sight reading and two hours a week to the writing of Latin prose. (Required of all Latin majors.)

Latin 304. The Latin Dramatists. **Three hours.**

Prerequisite: Latin 302, or its equivalent.

Purpose: (a) To acquaint students with the drama of the Romans, (b) to study the source of Latin comedy and influence on both Latin and modern literature, (c) to develop the power to read Latin.

Topics: Dramas of Plautus, Terence and Seneca. Two plays of Plautus will be studied intensively followed by rapid reading of other representative comedies. One of the tragedies of Seneca will be read.

Latin 401. (Formerly Latin 201.) Latin Prose of the Silver Age. **Three hours.**

Prerequisite: Latin 304, or the equivalent.

Purpose: (a) A continuation of study of Latin literature; (b) translation for information; (c) to supply the student first hand information of this age of Roman life and letters.

Topics: (a) Letters of Pliny the Younger; (b) Tacitus' Agricola; (c) selected readings from other representative writers.

Latin 402. (Formerly Latin 202.) Satire and Epigram. **Three hours.**

Prerequisite: Latin 304 or the equivalent.

Purpose: (a) To develop power to read Latin for content; (b) to develop literary appreciation; (c) to show the student Roman society of the first century, A. D., through contemporary eyes.

Topics: (a) Selected Satires of Juvenal; (b) selected epigrams of Martial; (c) study of development of satire in Latin literature with assignments from Horace; (d) study of satire in English; (e) study of epigram as a literary expression.

Latin 403. (Formerly Latin 203.) Latin Literature of the Early Empire. **Three hours.**

Prerequisite: Latin 304, or the equivalent.

Purpose: To introduce student into the literature of this, the most brillant period of Latin literature.

Topics: The Oxford University Press text—selections compiled by A. C. B. Brown. The selections form a connected and contemporaneous discussion of the following subjects: Politics, education, literature, philosophy, social types, and town and country life.

Latin 404. Literature of the Late Republic. **Three hours.**

Prerequisite: Latin 304 or its equivalent.

Purpose: (a) To acquaint the student with the literature of the Ciceronian age, (b) to give an intimate knowledge, through the literature of the time, of the turbulent political and social life of this ill-adjusted period, (c) to give practice in translation for information.

Topics: Prose—Selections from the works of Caesar, Sallust, Nepos, and Cicero with the emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day. Poetry—Selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 405. Roman Private Life. **Three hours.**

Required of Latin majors.

Purpose: To give a knowledge of the life of the Romans in the later Republic and earlier Empire that will serve as a background for teaching of high school Latin and help explain the powerful influence which the Roman nation exerted over the old world and make it easier to understand why that influence is felt today.

Topics: Lectures, discussions and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town, and country life.

DIVISION OF MATHEMATICS

Mr. Park Miss Derrick Mr. Jenkins
Mr. Engle

Mathematics 107. College Algebra. **Three hours.**

Purpose: To give thorough and comprehensive instruction in the principles of college algebra.

Topics: Review of high school algebra, radicals, quadratics, functions and their graphs, advanced topics in quadratic equations, ratio and proportion, variation, progressions, and systems of equations involving quadratics.

Mathematics 113. (Formerly Mathematics 213.) Trigonometry. **Three hours.**

Prerequisite: Mathematics 107.

Purpose: To give instruction in the fundamentals of plane trigonometry.

Topics: Functions of acute angles, natural functions, logarithms, solutions of right and oblique triangles, development of formulas, functions in the unit circle.

Mathematics 160. Teachers' Arithmetic. **Three hours.**

Purpose: The aim of this course is to give the student a wide knowledge of the objectives, problems, and methods of teaching arithmetic in the elementary school.

Topics: Aims and objectives of arithmetic, value of problems, assignments, examinations, importance of accuracy and speed, value of drill, games, solution of problems and methods of teaching arithmetic.

Mathematics 207. (Formerly Mathematics 108.) College Algebra. **Two hours.**

Prerequisite: Mathematics 107.

Purpose: To give instruction in the advanced topics of college algebra.

Topics: This course includes a study of mathematical induction, binomial theorem, theory of equations, permutations and combinations, probability, determinants and partial fractions.

Mathematics 232. Analytic Geometry. **Five hours.**

Prerequisites: Mathematics 107 and 113.

Purpose: To give instruction in the principles and applications of analytic geometry.

Topics: This course deals with problems, formulas and exercises relating to straight line, circle, parabola, ellipse, and hyperbola. Attention is also given to polar co-ordinates.

Mathematics 321. (Formerly Mathematics 221.) General Astronomy. **Three hours.**

Purpose: To give the student a knowledge and appreciation of the history, principles, importance, and content of astronomy.

Topics: This course includes a study of the development of astronomy as a science, the development of the solar system, astronomical instruments, and the better known facts of astronomy.

Mathematics 342. (Formerly Mathematics 341.) Elementary Statistical Methods. **Two hours.**

Purposes: (a) To acquaint the student with the theory and application of statistical methods to actual problems, and (b) to familiarize the student with the use of the graphical methods.

Topics: This course includes a study of the methods of collecting data, methods of tabulation of data, uses and purposes of statistical methods, central tendencies, deviations, correlations, and graphic methods.

Mathematics 351. (Formerly Mathematics 251.) Differential Calculus. **Five hours.**

Prerequisites: Mathematics 107, 113 and 232.

Purpose: To teach the fundamental principles, problems and practical applications of differential calculus.

Topics: Theory of limits, differentiation, simple application of the derivative, maxima and minima, differentials, partial differentiation and series.

Mathematics 352. Integral Calculus. **Three hours.**

Prerequisite: Mathematics 351.

Purpose: To teach the foundation principles, problems and applications of integral calculus.

Content: This course includes a study of integrations, definite integrals, integration of rational fractions, reduction formulas and successive integration.

Mathematics 407. (Formerly Mathematics 307.) Theory of Equations. **Three hours.**

Prerequisites: Mathematics 107, 113, 207.

Purpose: To acquaint the student with theory of algebra equations.

Topics: This course includes a study of graphs, complex numbers, cubic equations, quartic equations, determinants, and symmetric functions.

Mathematics 453. (Formerly Mathematics 353.) Differential Equations. **Three hours.**

Prerequisite: Mathematics 352.

Purpose: To acquaint the student with the methods of solving the most common types of differential equations.

Topics: The types studied are those of the first and second order, systems of simultaneous equations, and partial differential equations.

Mathematics 454. (Formerly Mathematics 554.) Advanced Calculus. **Three hours.**

Prerequisite: Mathematics 352.

Purpose: To fulfill the need of a more extensive course than that given in elementary calculus.

Topics: This course covers indeterminate forms, power series, partial differentiation, implicit functions and applications to geometry.

Mathematics 455. (Formerly Mathematics 555.) Advanced Calculus. **Three hours.**

Prerequisite: Mathematics 454.

Purpose: To continue study begun in Mathematics 454.

Topics: This course covers the definite integral, the gamma and beta functions, line surface and space integrals, Bessel functions and partial differential equations.

Mathematics 467. (Formerly Mathematics 367.) Teaching of High School Mathematics. **Three hours.**

Prerequisite: Ten hours of college mathematics or consent of Head of the Department.

Purposes: (a) To give instruction in the aims and importance of high school mathematics; (b) to give the student a knowledge of the development of mathematics and its place in the secondary school; (c) to give instruction in the best methods of teaching high school mathematics.

Topics: Aims of high school mathematics; importance of high school mathematics; history of mathematics; problems of teaching applied to mathematics; methods of teaching algebra, plane and solid geometry, trigonometry, and high school arithmetic; selection of problems; types of examinations and their importance; class instruction as applied to mathematics; importance of assignment and methods of study.

DIVISION OF SOCIAL SCIENCES

Mr. Kennamer
Mr. Adams
Mr. Burns
Mr. Dorris
Miss Floyd
Mr. Keith
Miss McKinney
Mr. Moore

Economics

Mr. Moore

Economics 124. Economic History of Europe. **Three hours.**

Purpose: To familiarize the student with the history of the economic activities of the leading nations of Europe. Emphasis is placed upon modern times, but the ancient and the medieval periods are not neglected.

Topics: The history of the development of agriculture, commerce, transportation, industry, labor legislation, socialism, social insurance, population and population trends, and finance in the principal European nations.

Economics 230. (Formerly Economics 125.) Principles of Economics. **Three hours.**

Purpose: To acquaint the student with the principles of economic theory and to give him an understanding of some of the outstanding industries of the United States.

Topics: The nature and function of industry, the science of economics, wealth, capital, income, specialization, exchange, agents of production, risk, price levels, business cycles, international trade, value, and important industries of the United States.

Economics 231. (Formerly Economics 222.) Principles of Applied Economics. **Three hours.**

Prerequisite: Economics 230.

Purpose: To acquaint the student with the principles of economic theory, to introduce the student to some of the elementary problems of applied economics, and to familiarize him with some of the outstanding industries of the United States.

Topics: Economic science and its application, consumption and the guidance of industry, wastes in production, unemployment and other forms of idle power, the integration of industry, efficiency in management, industrial unrest and conflict, industrial peace, profit-sharing and joint control in industry, problems of population, efficiency in marketing, the price system and its control, regulation of public utility rates, control of banking in the United States, stabilizing our monetary system, business cycles and their control, free trade and protection, international debts and economic imperialism, the relation between government and industry, government regulation

and ownership, financing the government, the revenue system of the United States, the problem of inequality, agricultural problems, types of economic organization, and important industries of the United States.

Economics 310. (Formerly Economics 210 and 321.) American Economic History. **Three hours.**

Purpose: To give the student an understanding of the economic development of the United States.

Topics: Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems and agriculture in the United States.

Economics 324. (Formerly Economics 224.) Money and Banking. **Three hours.**

Prerequisite: Economics 230.

Purpose: To acquaint the student with the elementary principles and theory of money, and with the theories and practices of banking.

Topics: Nature and functions of money, kinds of money, monetary systems, history of banking, functions of the bank, bank administration, the national banking system, deposits and depositors, the clearing house, domestic and foreign exchange, loans and discounts, bank supervision, savings banks, trust companies, foreign banking systems, and the federal reserve system.

Economics 430. (Formerly Economics 330.) Public Finance. **Three hours.**

Prerequisite: Commerce 230.

Purpose: To give the student an understanding and appreciation of the scope and importance of public finance in the operation of modern governments.

Topics: The meaning and scope of public finance; development of public finance; public expenditures, their classification, growth, and economic effects; public credit, its nature and uses, its forms; financial administration and legislation; the forms of public revenue, the public domain, the industrial domain, administrative revenues, and taxation—its meaning and development, some of the requisites of a sound system, the distribution of the tax burden, means of escape from taxation, the general property tax, modified property tax, taxes on corporations, consumption and other excise taxes, taxes on incomes, and estate and inheritance taxes.

Geography

Mr. Kennamer Miss McKinney

Geography 101. Principles of Geography. **Three hours.** Fee, 50c.

Purposes: (a) To acquaint the student with the tools necessary in geography work, (b) to help the student acquire a geographic

vocabulary, (c) to give the student a working knowledge of the basic principles underlying the science of geography.

Topics: The use of maps, globes, tellurians and atlases; the use and interpretation of charts, diagrams and statistics; a brief history of the changing aspects of geography; the nature of human geography; the earth's form and movements, their results and influences upon man; the continents and their influences upon man; human activities in mountains and plains; the influence of the oceans on man; the use of inland waters, man's relation to soil and minerals; man and vegetation in different types of climatic regions; the effects of population density upon standards of living; distribution of the population of the earth.

Geography 202. Climatology. **Three hours.**

Purpose: This course is planned (a) to provide an interpretation of weather conditions and processes, (b) to interpret climatic data and charts, (c) to note the various climatic elements—their distribution and their variations, (d) to study the common climatic types of the world on a regional basis, and (e) to emphasize the human responses to weather and climate.

Topics: Weather and weather observation; elements of climate; climatic regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipitation, and the major types of storms; forecastings; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 221. (Formerly Geography 121.) Economic Geography of the Industries. **Three hours.**

Purpose: (a) To give the student a view of the business field, (b) to acquaint the student with the major industries of the world and the principal factors influencing domestic and international trade, (c) to give the student a background for study in international relations and world problems.

Topics: The more important agricultural products—cereals, starch foods, forage crops, vegetable crops, fruit crops, wine industries, sugar, vegetable oils, condiments and tobacco, vegetable fibers, non-food vegetables; the animal food stuffs, animal fibers, furs, skins; the mining industries; manufactures—aluminum, automobile, copper, chemicals, textiles, leather, iron and steel, paint, petroleum, rubber, etc.; trade routes, inland in North America and international trade routes; world trade centers.

Geography 271. Geography of North America. **Three hours.**

Prerequisite: Geography 101.

Purpose: An intensive study of English America, designed (a) to give to the students a knowledge of the regional geography of the English speaking countries of North America; (b) to acquaint the

student with the place geography of the continent necessary to intelligent reading of newspapers and magazines; (c) to give the student an appreciation of the geographic resources, possibilities and handicaps of the three countries studied.

Topics: The United States as a national unit; the geographic regions of the United States as the Upper Lake Region; the Driftless Area, the Atlantic Coastal Plain, the Piedmont, the Interior Highlands, the Puget Sound Trough; the geographic regions of Canada, as the Great Lakes–St. Lawrence Region; the Prairie Plains and Arctic Meadows, the Pacific Mountain Region; Alaska.

Geography 301. (Formerly Geography 201.) Physical Geography and Geology. **Three hours.**

Purpose: This course is designed (a) to give the student a knowledge of the land forms, their origin and history, their changes, and their influence on man, (b) to teach the use of geologic and topographic maps, and (c) to teach the student to interpret present-day environment.

Topics: Materials of the earth; weathering; work of wind; work of ground water; work of streams; work of glaciers; the ocean and its work; the structure of the earth; earthquakes; volcanoes and igneous intrusions; metamorphism; mountains and plateaus; ore deposits; soils, their classification and origin; major physiographic features, their origin and influence on man.

Geography 305. (Formerly Geography 205.) Economic and Historical Geology. **Three hours.**

Purpose: This course is planned (a) to familiarize the student with the earth's history as revealed in its rocks; (b) to teach him to correlate the lessons of maps and the rocks.

Topics: The origin of the earth; genesis of ore deposits; evolution of plants and animals; origin of mountains; history and growth of continents; the earth's interior; formation and recognition of common rocks and minerals; architecture of the earth; geologic time table; the geologic eras; the growth of knowledge of the earth; man's place in nature; geology in the service of man applied to industry, and to the larger affairs of men; economic and geologic features of minerals.

Geography 372. (Formerly Geography 272.) Geography of Europe. **Three hours.**

Prerequisite: Geography 101.

Purpose: (a) To make the student thoroughly familiar with the map and political geography of the present European countries; (b) to give the student an appreciation of the geographic handicaps and advantages of the various European countries; (c) to make the student familiar with the important place geography of Europe.

Topics: (a) The general geographic setting of Europe as a whole; (b) the physiographic climate, economic, and political geog-

raphy of each of the major countries; (c) European trade and commerce; (d) the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the World War.

Geography 373. (Formerly Geography 273.) Geography of Latin America. **Three hours.**

Prerequisite: Geography 101.

Purpose: The purpose of this course is to give the student an acquaintance with the geography of Mexico, Central America, West Indies and South America that will enable him to understand the economic development of each and to follow intelligently the trend of political events within them.

Topics: International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 461. (Formerly Geography 261 and 361.) Materials and Problems in the Teaching of Geography. **Two hours.**

Prerequisite: Six hours of geography.

Purpose: (a) To acquaint the student with the objectives of geography teaching; (b) to acquaint the student with the best materials for this type of work; (c) to give instruction in the best methods of teaching geography in the elementary and junior high schools.

Topics: Objectives in the teaching of geography, evolution and technique of visual aids; standard equipment for geography teaching; presentation of textual materials; the purpose and conduct of local field studies; comparative study of recent courses and texts in geography.

Geography 471. (Formerly Geography 371.) Geography of World Problems. **Three hours.**

Prerequisite: Six hours of geography.

Purpose: The purpose of this course is to study the geographic, economic and historic factors affecting current international problems and to gain thereby the cultural values of world citizenship through an interest in, and knowledge of world affairs.

Topics: Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems—India, Egypt, Ireland, South Africa; Geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 473. (Formerly Geography 374.) Geography of Asia. **Three hours.**

Prerequisite: Geography 101.

Purpose: This course is designed to give the student an acquaintance with the geography of all the countries and regions of Asia that will enable him to understand the economic development of each and to follow intelligently the trend of political events within them.

Topics: The structure of Asia; the geography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey—the threshold of Asia; Arab Asia; the Iranian Plateau; the Indian Empire; Ceylon; Southeastern Asia; the East Indies; China, the Dead Heart of Asia; Japanese Empire; Asiatic Russia; growing interest of the United States in Asia; the geographic advantages and disadvantages.

Geography 474. Geography and Geology of Kentucky. **Two hours.**

Purpose: The purpose of this course is (a) to familiarize the student with the geologic history and structure of Kentucky; (b) the various regional, physical and cultural landscapes of the state; (c) the wide range of physical influences which make up the geographic environment, and (d) the many responses man has made or could make in making a living in the state.

Topics: The Kentucky country; geology; surface and drainage; weather and climate; native vegetation; native animals; native people; the coming of the white man; the soil and its conservation; agriculture; animal industries; mineral resources; manufacturing; transportation; location and growth of cities; Louisville and the cities of the Ohio Basin; other cities; the counties of Kentucky; cultural features of Kentucky—government, education; Kentucky of the future.

Geography 475. Geography of Africa and Australia. **Three hours.**

Prerequisite: Geography 101.

Purpose: This course is designed to give the student an acquaintance with the geography of two continents, Africa and Australia, that will enable him to understand the civilizations, the environment and the human activities of each.

Topics: Structure; physiography; climate; vegetation; population; exploration; exploitation; position in world's affairs; agricultural resources; transportation facilities; climatic and physiographic regions; foreign trade and foreign interests; comparisons and contrasts with other continents; the geographic advantages and disadvantages; changes resulting from World War and post-war conditions; present day problems and their geographic background.

Geography 477. (Formerly Geography 377.) Conservation of Natural Resources. **Three hours.**

Purpose: A course of practical value to all citizens and particularly to teachers of future citizens in that it emphasizes thrift and the wise use of all natural resources, and condemns waste.

Topics: History of the conservation movement; the forest resources; soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels, coal, petroleum, natural gas; the metallic resources, iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural losses.

Government

Mr. Keith Mr. Burns Mr. Dorris

I. AMERICAN GOVERNMENT

Government 111. American Government and Citizenship. **Three hours.**

Purpose: The purpose of this course is to give a general introductory survey of the entire field of American Government and its workings. Teaching of good citizenship is one of the main objects of the course.

Topics: Local state and national government; organization of the various departments of government with their functions and operation; political organizations and the influence of political parties; ideals of correct organizations of government and its just function.

Government 311. Problems of American Government. **Three hours.**

Prerequisite: Government 111.

Purpose: To teach problems of government; to give the student some idea of the evils consequent to government, with ideals of correct government.

Topics: Problems connected with municipal, state, and national government; newer modes in organization and operation of government; problems connected with the franchise; various franchises in municipalities and contracts of state and nation; problems of incidence, levy and collection of taxes and appropriation of moneys.

Government 411. International Diplomacy. **Three hours.**

Prerequisite: Government 111.

Purpose: To consider the relations among the leading nations of the world.

Topics: Leading negotiations and treaties among the nations together with diplomatic and consular affairs in general.

II. FOREIGN GOVERNMENT

Government 351. English Government. **Three hours.**

Prerequisite: Government 111.

Purpose: To acquaint the student with the government of England and Switzerland and some of the political literature of these nations.

Topics: The rise of governmental institutions of England, and her influence among the nations, kingship, parliament, cabinet, ministry, privy council, and the Swiss system of government and her democracy.

Government 452. (Formerly Government 352.) Foreign Government. **Three hours.**

Prerequisite: Government 111.

Purpose: To acquaint the student with the political systems and political writings concerning France, Italy, Germany and Russia, and possibly with some of the newer governments, where time permits.

Topics: Such topics as naturally arise in the study of these governments.

History

Mr. Keith Mr. Burns Mr. Dorris
Mr. Adams Miss Floyd

HISTORY OF CIVILIZATION

History 141. History of Western Civilization. **Three hours.**

Purpose: (1) To provide a historical survey of civilization which will serve as a framework or background for subsequent study in fields more restricted in scope, (2) To provide an introduction to the social sciences and related subjects that the student may, early in his college course, come to understand that man and his history can be studied scientifically only in the light of the investigations and researches in archaeology, anthropology, economics, sociology, psychology, et cetera.

Topics: Rise of ancient governments, the city state in Greece, Grecian art and architecture, the rise of imperial government in Rome, the influence of the Roman legal system, the rise of the church and of nations in Europe.

History 142. History of Western Civilization. **Three hours.**

Purpose: (1) To provide a historical survey of civilization which will serve as a framework or background for subsequent study in fields more restricted in scope, (2) To provide an introduction to the social sciences and related subjects that the student may, early in his college course, come to understand that man and his history can be studied scientifically only in the light of the investigations and researches in archaeology, anthropology, economics, sociology, psychology, et cetera.

Topics: The continued rise of modern states with the development of their governments and political parties, the renaissance and reformation, dynastic and international wars, the rise of labor-capital disputes, the rise and development of the socialist party, the World War and its aftermath.

I. AMERICAN HISTORY

History 202. American History. **Three hours.**

Purpose: This is a survey course in American history, designed to familiarize the student with the general content from the discovery to the time of Andrew Jackson. Stress is placed on the bibliography and sources of materials for the study of American History.

Topics: Discovery, exploration, and conquest by nations; colonization; alienation of the colonies from England and eventual revolution; establishment of government and the rise of a powerful nation; the War of 1812; the beginning of the slavery controversy leading to final disruption.

History 203. American History. **Three hours.**

Purpose: This is a survey course designed to acquaint the student with the general content of American history from the time of Andrew Jackson to the present. Some effort is made to present the subject matter with the best methods of teaching and the literature of the course in mind.

Topics: The slavery contest to the climax in the Civil War, then the story of the negro to the present; the tariff question and its bearing on sectionalism; mechanical inventions; foreign wars; banking and currency; industrialism, and the rise of "Big Business."

History 300. Recent and Current World History. **Three hours.**

Purpose: The purpose of this course will be to consider the recent and current history of the leading nations of the world. An attempt will be made to read the newest books and periodicals on the subject.

Topics: Economic, industrial, political, religious affairs of the nations considered.

History 301. American History. **Two hours.**

Prerequisite: History 202 or History 203.

Purpose: This course is designed to bring the study of America from the World War to the Present.

Topics: Reconstruction after the World War, organized "Big Business," commerce, expansion, imperialism, tariff, foreign relations, current politics.

History 405. (Formerly History 305.) History of the American West, 1763 to 1890. **Three hours.**

Prerequisite: History 202 or History 203.

Purpose: To show the relation of the development of the West to American History.

Topics: Advancement of the American frontier, Indian Wars, irrigation, political relations of the West to the nation, development of democracy, education, territorial acquisitions.

History 406. (Formerly History 306.) History of the American South. **Three hours.**

Prerequisite: History 202 or History 203.

Purpose: This course attempts to acquaint the student with the historical literature and the history of the South in its relation to the Union.

Topics: Settlement, peoples, religion, government, education, social and economic conditions, relations to the North and to foreign nations consequent to slavery, the Civil War, reconstruction, resumption and progress in all lines.

History 446. (Formerly History 346.) Latin-American History. **Two hours.**

Purpose: The purpose of this course is to acquaint the student with the history and government of the Mexican, Central and South American nations and their relations with the United States.

Topics: History and government of the nations involved.

II. EUROPEAN HISTORY

History 240. History of Medieval Europe. **Three hours.**

Prerequisite: History 141.

Purpose: To familiarize the student with the general content of Medieval History, give him a notion of the continuity of history and acquaint him with the historical literature of the period covered.

Topics: The migration of the tribes, the rise of nationalities, the medieval church, Crusades, the feudal system, and the Hundred Years' War.

History 241. European History from 1500 to 1715. **Three hours.**

Prerequisite: History 141 or 142.

Purpose: This course continues the survey of European History. The general content of history and literature of the period is studied.

Topics: The Reformation and the religious wars; international rivalries and dynastic wars for aggrandizement; the rise of other nations; social economic and industrial history; beginnings of liberalism; the development of political, educational and economic institutions.

History 343. (Formerly History 344 and 444.) European History from 1715 to 1815. **Two hours.**

Prerequisite: History 240 or 241.

Purpose: This course continues the survey of European History.

Topics: The Industrial Revolution among the nations, wars partly consequent upon that revolution, rising imperialism among the nations, the French Revolution, and reconstruction of the continent of Europe.

History 344. (Formerly History 345 and 445.) European History from 1815 to the present. **Three hours.**

Prerequisite: History 240, 241, or 343.

Purpose: This course completes the survey of European History.

Topics: Social, economic, and industrial conditions after Waterloo; liberal uprisings and reactionary repressions—Metternich; the rise of Socialism—Karl Marx; wars of the century; the merging of the Germanic body into the German Empire; the rise of modern Italy; the struggle for naval, industrial, and economic mastery and the deluge of the World War; the aftermath of the war.

History 443. The French Revolution and Napoleon. **Three hours.**

Prerequisite: History 343.

Purpose: To give basis for better understanding of revolutionary and democratic developments in the nineteenth and twentieth centuries.

Topics: A survey of the Old Regime with emphasis on the causes of the Revolution; a detailed study of the Revolution and the Napoleonic Empire.

III. ENGLISH HISTORY

History 242. English History to the Stuarts. **Three hours.**

Purpose: To give the student a general review of the first half of English History with extensive work in the literature concerning it.

Topics: The coming of the Anglo-Saxon, advance toward nationality, the Norman invasion, English feudalism, the Hundred Years' War, legal and political development, the Wars of the Roses and the fall of Feudalism, and the Tudor monarchy.

History 342. (Formerly History 442.) English History from 1714 to the present. **Three hours.**

Prerequisite: History 242.

Purpose: This course is sequential to History 242, and is intended to acquaint the student with the history and historical literature of the period indicated

Topics: The Hanoverian dynasty, the struggle for empire, development of British Imperialism, parliamentary reforms of the nineteenth century, influence of political parties, England's place in the "Parliament of Men."

History 441. (Formerly History 341.) English History from 1603 to 1714. **Two hours.**

Prerequisite: History 242.

Purpose: To study the Puritan and the English revolutions and to give the English background of American History, together with some attention to historical literature of the period covered.

Topics: The Divine Right of James I and Charles I, religious and financial struggles of the time, parliamentary resistance to the first two Stuarts, the "Roundhead" Rebellion, and Charles II and James II and the English Revolution.

IV. KENTUCKY HISTORY

History 461. (Formerly History 361.) Kentucky History. **Three hours.**

Purpose: To make a general study of Kentucky history, and to attempt to show the student the wealth of material for the study of the Commonwealth's history.

Topics: General, social, economic, political history of Kentucky; her influence in the development of American Democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky; occasional excursions to places of historic interest will probably be taken.

Sociology

Mr. Keith Mr. Hughes Mr. Burns

Sociology 243. Rural Sociology. **Three hours.**

Purpose: To study conditions and influences that affect the welfare of rural people.

Topics: Historical background, movements and outstanding problems of rural life; problems and resources of the rural community; community organizations, schools, and churches; the relationship of the school to other agencies of the community; responsibility of the teacher for the improvement and enrichment of rural life; and other problems related to the rural community.

Sociology 331. Introduction to Sociology. **Three hours.**

Purpose: This course is a general survey of introductory sociology.

Topics: Field of sociology and its relation to other social science courses; relation of living conditions to life; the problem of finding and using leaders; social achievements; man's relation to his institutions and his responsibility for them; the family, religion and morals.

ADMINISTRATION BUILDING

CURRICULA

PROGRAM OF STUDIES FOR FRESHMEN STUDENTS

The program of studies offered in the freshman year is designed to meet the needs of first-year students. An effort has been made to give the student an opportunity to develop special interests and abilities. On the other hand, the curriculum is planned to give the student specific training in the field of general education. The program outlined for all first-year students includes:

FIRST SEMESTER

English 101, Oral and Written Composition	3	semester hours
History 141, History of Western Civilization	3	semester hours
Science 110, Survey of Science	3	semester hours
Library Science 166, Library Orientation	1	semester hour
Physical Education 110a, Fundamental Physical Education Activities	½	semester hour
Total	10½	semester hours

SECOND SEMESTER

English 102, Oral and Written Composition	3	semester hours
History 142, History of Western Civilization	3	semester hours
Science 111, Survey of Science	3	semester hours
Physical Education 110b, Fundamental Physical Education Activities	½	semester hour
Total	9½	semester hours

In addition to the above, the student elects other courses to make a total of sixteen semester hours for each semester. It is expected that the student will elect courses to meet his special needs and abilities.

Each student is required to file in the Dean's office before the close of the freshman year, the curriculum which he expects to complete in fulfillment of the requirements for a degree. This curriculum must be planned to meet the special needs of the student and must be approved by the Dean of the College at the time that it is filed. This curriculum is a contract between the college and the student and cannot be changed or modified except by written approval of the Dean of the College.

REQUIREMENTS FOR DEGREES

I. PROFESSIONAL BACCALAUREATE DEGREES

General Requirements:

The bachelor's degree is issued upon a minimum of one hundred and twenty-eight semester hours of college credit. A maximum of thirty-two hours of the work required for a degree may be earned by extension and correspondence. A candidate for a degree must have been in residence in the Eastern Kentucky State Teachers College a minimum of thirty-six weeks, at least eighteen of which must have been in the senior year, and must have earned a minimum of thirty-two hours while in residence.

A minimum of forty per cent of the semester hours of credit offered in fulfillment of the requirements for the bachelor's degree must be of senior college level.

Major and Minor Requirements:

A major and two minors or two majors must be completed. A major is defined as a minimum of twenty-four semester hours and a minor is defined as a minimum of eighteen semester hours.

Minimum Departmental Requirements:

Education	18 hrs.
English	12 hrs.
Health	2 hrs.
Mathematics (exclusive of arithmetic)	6 hrs.
or Foreign Language*	6 to 12 hrs.
Physical Education	1 hr.
Science (Biology, Chemistry, General Science, Geology, Physics)	12 hrs.
Social Sciences (Economics, Government, History, Sociology)	12 hrs.

II. NON-PROFESSIONAL BACCALAUREATE DEGREES

General Requirements:

Same as Professional Baccalaureate Degrees.

Major and Minor Requirements:

Same as Professional Baccalaureate Degrees.

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* If three units or more of a foreign language are offered for admission, six semester hours in the same language will be required; if two units of a foreign language are offered for admission, nine semester hours in the same language will be required; if one unit or less of a foreign language is offered for admission, twelve semester hours in the same language will be required.

Departmental Requirements:

Bachelor of Arts

English	18 hrs.
History, Government, Sociology	18 hrs.
Science	12 hrs.
Mathematics (not including teachers' arithmetic)	7 hrs.
Foreign Language*	6 to 18 hrs.

Bachelor of Science

English	18 hrs.
History, Government, Sociology	12 hrs.
Science	60 hrs.
Mathematics (not including teachers' arithmetic)	12 hrs.
Foreign Language*	6 to 18 hrs.

* In meeting the Foreign Language requirement for this degree only credit in translation courses will be counted. The minimum amount of a Foreign Language which may be offered to meet this requirement shall be as follows:

Six semester hours provided three or more units of the same language are presented for college entrance.

Twelve semester hours provided two units of the same language are presented for college entrance.

Eighteen semester hours if less than two units of the same language are presented for college entrance.

REQUIREMENTS FOR CERTIFICATES

I. ELEMENTARY CERTIFICATES

An elementary certificate is valid for use in any elementary school in the state.

(1) *Provisional elementary certificate.*—The provisional elementary certificate, valid for three years, shall be issued to a person who has completed the two-year curriculum for the training of elementary teachers. The provisional elementary certificate may be reissued or renewed after two years of teaching experience during the life of the certificate or upon the presentation of one-half year (16 semester hours) of additional work, earned during the life of the certificate, selected from the requirements for the standard elementary certificate and may be renewed thereafter upon the presentation of one-half year (16 semester hours) of additional credit selected from the requirements for the standard elementary certificate.

CURRICULUM FOR THE PROVISIONAL ELEMENTARY CERTIFICATE

This curriculum satisfies all requirements of the State Board of Education for the Provisional Elementary Certificate

FIRST YEAR

First Semester

Art 161—Public School Art or Music 160—Public School Music	2	hrs.
English 101—Oral and Written Composition	3	hrs.
Health 101—Public Hygiene	3	hrs.
History 141—History of Civilization I	3	hrs.
Library Science 166—Library Orientation	1	hr.
Science 110—Survey of Science	3	hrs.
Physical Education 110a—Fundamental Physical Education Activities	½	hr.
	15½	hrs.

Second Semester

Education 102—Introduction to Education	3	hrs.
English 102—Oral and Written Composition	3	hrs.
Geography 101—Principles of Geography	3	hrs.
History 142—History of Civilization II	3	hrs.

Science 111—Survey of Science	3	hrs.
Physical Education 110b—Fundamental Physical Education Activities	½	hr.
	15½	hrs.

SECOND YEAR

First Semester

Education 111—Educational Psychology	3	hrs.
Education 261—Fundamentals in Early Elementary Education or Education 263—Fundamentals in Intermediate Educ.	4	hrs.
English 218—Survey of Literature I	3	hrs.
Mathematics 160—Teachers' Arithmetic	3	hrs.
Music 160—Public School Music or Art 161—Public School Art	2	hrs.
Physical Education 200c—Fundamental Physical Education Activities	½	hr.
Elective	2	hrs.
	17½	hrs.

Second Semester

Education 265—Supervised Student Teaching	3	hrs.
English 261—Literature for Primary Grades or English 266—Literature for the Intermediiate Grades	3	hrs.
Government 111—American Government and Citizenship	3	hrs.
Sociology 243—Rural Sociology	3	hrs.
Physical Education 200d—Fundamental Physical Education Activities	½	hr.
Elective	3	hrs.
	15½	hrs.

(2) *Standard elementary certificate.*—The standard elementary certificate, valid for four years, shall be issued to a person who completes the four-year curriculum for a major in elementary education. This certificate may be reissued or renewed every four years after three years of teaching experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade. The standard elementary certificate may be extended for life upon the presentation of evidence that the holder has had three years of teaching experience in the elementary field during the life of the certificate and has completed the requirements for the master's degree in a standard college or university.

II. HIGH SCHOOL CERTIFICATES

A high school certificate is valid for use in any high school in the state.

(1) *Provisionl high school certificate.*—The provisional high school certificate, valid for four years, shall be issued to a person who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of high school teachers. This certificate may be re-issued or renewed every four years after three years of teaching experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade earned during the life of the certificate.

(2) *Standard high school certificate.*—The standard high school certificate, valid for five years, shall be issued to a person who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of high school teachers and who, in addition thereto, has completed the requirements for the master's degree in a standard college or university.

III. CERTIFICATES IN ADMINISTRATION AND SUPERVISION

Certificates in administration and supervision are valid for use in any position of superintendent, principal, supervisor, teacher, or attendance officer.

(1) *Provisional certificate in administration and supervision.*—The provisional certificate in administration and supervision, valid for four years, shall be issued to a person who has had at least two years of successful teaching experience and who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of administrators and supervisors. The curriculum for the training of administrators and supervisors shall include in addition to the requirements for the training of elementary or high school teachers the following professional courses:

Administration and Supervision	6 hrs.
Elementary Education	6 hrs.
Supervised Student Teaching	6 hrs.
Secondary Education	6 hrs.

This certificate may be reissued or renewed every four years after three years of experience during the life of the certificate

or upon presentation of one-half year of standard college or university work of graduate grade.

(2) *Standard certificate in administration and supervision.* —The standard certificate in administration and supervision, valid for five years, shall be issued to a person who has had at least two years of successful teaching experience and who is a graduate of a standard four-year college or university and who has completed the four-year curriculum for the training of administrators or supervisors, and who, in addition thereto, has completed the requirements for the master's degree. The standard certificate in administration and supervision may be extended for life upon presentation of evidence that the holder has had three years of successful experience during the life of the certificate.

IV. ATTENDANCE OFFICER'S CERTIFICATE

The certificate for attendance officers shall be issued to any person who completes a four-year curriculum for a teacher's certificate provided such curriculum includes at least three semester hours of pupil accounting.

CURRICULA

Teacher-Education Curricula.—The curricula offered by the college have been planned and developed to meet the needs of students who desire to become teachers in the public schools of Kentucky. During the past several years these curricula have been outlined in detail and have been published in the annual catalog. In keeping with this practice, the curricula are again published as a part of this bulletin. These published curricula, with the exception of those for Vocational Home Economics and the Provisional Elementary Certificate, are not to be followed by first- and second-year students. A part of the guidance program of the college is devoted to the work of planning individual programs of study. Each student is required to file in the Dean's office before the end of the freshman year the curriculum which he expects to follow. This program of studies must be approved by the Dean of the College at the time that it is filed and, once approved, is a contract between the college and the student. This individual program is designed and planned to make the college course serve the student in the greatest possible way. All available sources of information concerning the student's needs and abilities are utilized in planning the program of studies.

Pre-Professional Curricula—Pre-Medical, Pre-Law, Pre-Engineering, and the like.—The institution also offers curricula for students who are preparing to enter medical schools, colleges of law, colleges of engineering, and the like. These curricula are not outlined in detail in this bulletin. This is due to the fact that requirements for professional courses in the fields of medicine, law, engineering, and the like, are not uniform in the various colleges and universities.

Students who take their pre-medical work at Eastern satisfy the entrance requirements of the medical schools of the University of Louisville, University of Chicago, Johns Hopkins University, University of Tennessee, Vanderbilt University, and of other leading institutions.

The pre-professional work for law, engineering, and the like also fulfills the requirements of the leading universities and colleges of the nation.

CURRICULUM FOR A MAJOR IN COMMERCE

(Teacher Education)

This curriculum is planned for the student who expects to teach commerce in the high school and who desires to devote a major portion of his time to a study of the various phases of the field of commerce. This curriculum satisfies the requirements for the provisional high school certificate.

The following is a list of the required courses for this curriculum:

Commerce—124; 126; 131; 151; 152; 215; 216; 219; 220; 230; 231; 253; 301; 303; 309; 322; 370; 371; 405; 461a; 461b; 470; 471; elective in general business, three semester hours.

Education—111; 314; 364; 463; elective in secondary education, two semester hours.

English—101; 102; 218; 219.

Health—100.

History—141; 142; 202; 203.

Library Science—166.

Mathematics—107; 113.

Physical Education—110a; 110b; 200c; 200d.

Science—110; 111; Biology, Chemistry, Physics, or Geology, six semester hours.

Electives—In addition to the courses outlined above, the student may elect courses in any subject or subjects to make a minimum of 128 semester hours.

SPECIAL CURRICULUM FOR A MAJOR IN COMMERCE

(General Business)

This curriculum is a special curriculum in the field of commerce and is designed to meet the needs of the student who expects to enter business rather than the field of education. This curriculum does not meet the requirements for a teacher's certificate.

The following is a list of the required courses for this curriculum:

Commerce—124; 126; 127; 131; 151; 152; 219; 220; 230; 231; 301; 309; 322; 324; 325; 326; 370; 371; 405; 406; 470; 471; elective in commerce, nine semester hours.

English—101; 102; 218; 219.

Government—111.

Health—100.

History—141; 142; 202; 203.

Library Science—166.

Mathematics—107, 113 or 207; 342.

Physical Education—110a; 110b; 200c; 200d.

Science—110; 111; Biology, Chemistry, Physics, or Geology, six semester hours.

Electives—In addition to the courses outlined above, the student may elect courses in any subject or subjects to make a minimum of 128 semester hours.

CURRICULUM FOR A MAJOR IN VOCATIONAL HOME ECONOMICS*

FIRST YEAR

First Semester

Art 117—Elementary Drawing and Design	4	hrs.
English 101—Oral and Written Composition	3	hrs.
Health 101—Public Hygiene	3	hrs.
Home Economics 101—Textiles	2	hrs.
Library Science 166—Library Orientation	1	hr.
Science 110—Survey of Science	3	hrs.
Physical Education 110a—Fundamental Physical Education Activities	½	hr.
	16½	hrs.

Second Semester

Biology 121—General Biology	4	hrs.
English 102—Oral and Written Composition	3	hrs.
Home Economics 102—Source, Selection and Cost of Foods	2	hrs.
Physics 102—Household Physics	3	hrs.
Science 111—Survey of Science	3	hrs.
Physical Education 110b—Fundamental Physical Education Activities	½	hr.
	15½	hrs.

SECOND YEAR

First Semester

Chemistry 111—General Chemistry	4	hrs.
Education 111—Educational Psychology	3	hrs.
English 218—Survey of Literature I	3	hrs.
Home Economics 204—Nutrition and Food Preparation	3	hrs.
Home Economics 155—Elementary Costume Design	2	hrs.
Physical Education 200c—Fundamental Physical Education Activities	½	hr.
	15½	hrs.

Second Semester

Chemistry 112—Inorganic Chemistry	5	hrs.
Economics 230—Principles of Economics	3	hrs.
English 219—Survey of Literature II	3	hrs.
Home Economics 203—Garment Making	3	hrs.
Home Economics 222—Interior Decoration	2	hrs.
Physical Education 200d—Fundamental Physical Education Activities	½	hr.
	16½	hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Chemistry 220—Organic Chemistry	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Home Economics 206—Dressmaking	2 hrs.
Home Economics 231—Home Nursing	2 hrs.
Home Economics 306—Advanced Nutrition	3 hrs.
	17 hrs.

Second Semester

Education 304—Materials and Methods for Teaching Vocational Home Economics	3 hrs.
Health 303—Applied Bacteriology	5 hrs.
Home Economics 205—Meal Planning and Table Service	3 hrs.
Home Economics**	6 hrs.
	17 hrs.

FOURTH YEAR

First Semester

Biology 481—Animal Physiology	4 hrs.
Education 463—Student Teaching	6 hrs.
Home Economics 401—Dietetics	3 hrs.
Sociology 331—Introduction to Sociology	3 hrs.
	16 hrs.

Second Semester

Art 372—Applied Arts	3 hrs.
Home Economics 402—Child Development	3 hrs.
Home Economics 403—Home Management	4 hrs.
Home Economics**	5 hrs.
	15 hrs.

** Courses must be elected with advice and consent of head of the department.

CURRICULUM FOR A MAJOR IN AGRICULTURE*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Agriculture 126—Farm Poultry	3 hrs.
Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Industrial Arts 191—Elementary Mechanical Drawing	3 hrs.
Library Science 166—Library Orientation	1 hr.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Agriculture 131—General Horticulture	3 hrs.
Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

SECOND YEAR

First Semester

Agriculture 211—Farm Crops	3 hrs.
Agriculture 251—Farm Engineering	2 hrs.
Chemistry 111—General Chemistry	4 hrs.
English 218—Survey of Literature I	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

Agriculture 224—Dairy Cattle Management or Agriculture 223—Market Milk	3 hrs.
Economics 230—Principles of Economics	3 hrs.
English 219—Survey of Literature II	3 hrs.
Sociology 243—Rural Sociology	3 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
Elective	3 hrs.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Agriculture 315—Soils	3 hrs.
Economics 231—Principles of Applied Economics	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Health 303—Applied Bacteriology	5 hrs.
Elective	2 hrs.
	16 hrs.

Second Semester

Agriculture 321—Feed and Feeding	3 hrs.
Agriculture 345—Farm Management and Farm Accounts	3 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
Elective	3 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Biology 433—Plant Diseases or	
Biology 343—Economic Entomology	3 or 4 hrs.
Education 463—Student Teaching	6 hrs.
Elective	6 or 5 hrs.
	15 hrs.

Second Semester

Agriculture 441—Agricultural Economics	3 hrs.
Education, Secondary (Elective)	2 hrs.
Elective	12 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN ART*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 102—Introduction to Education	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Mathematics 160—Teachers' Arithmetic	3 hrs.
Science 110—Survey of Science	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

Art 117—Elementary Drawing and Design or Art 161—Public School Art[1]	4 or 2 hrs.
Education 111—Educational Psychology	3 hrs.
English 102—Oral and Written Composition	3 hrs.
History 142—History of Civilization II	3 hrs.
Science 111—Survey of Science	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
Elective	0 or 2 hrs.
	16½ hrs.

SECOND YEAR

First Semester

Art 200—Appreciation of Art	2 hrs.
Art 215—Color Theory	1 hr.
Biology 231—Botany I. General Botany	4 hrs.
English 218—Survey of Literature I	3 hrs.
Government 111—American Government and Citizenship	3 hrs.
Music 160—Public School Music	2 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

Art 217—Lettering and Poster Design	2 hrs.
English 219—Survey of Literature II	3 hrs.
English 261—Literature for Primary Grades or English 266—Literature for the Intermediate Grades	3 hrs.
Geography 101—Principles of Geography	3 hrs.
Health 101—Public Hygiene	3 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

* This curriculum satisfies all the requirements for the standard elementary certificate.

[1] Art 160 must be taken if student is fulfilling requirements for supervisor's certificate.

THIRD YEAR

First Semester

Art 315—Drawing, Painting and Composition, or Art 222—Interior Decoration	3 or 2 hrs.
Art 316—Drawing and Modeling or Art 155—Costume Design	2 hrs.
Education 313—Child Psychology	3 hrs.
Education 354—Reading in the Elementary School	3 hrs.
History 241—European History from 1500 to 1715	3 hrs.
Sociology 331—Introduction to Sociology	3 hrs.
	17 or 16 hrs.

Second Semester

Art 361—Art Education in the Elementary and Secondary School	3 hrs.
Art 372—Applied Design	3 hrs.
Education 261—Fundamentals in Early Elementary Education or Education 263—Fundamentals in Intermediate Education	4 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
Music (Elective)	2 hrs.
Elective	1 hr.
	16 hrs.

FOURTH YEAR

First Semester

Art 390—The History of Art	3 hrs.
Education 463—Student Teaching	6 hrs.
Education, Elementary (Elective)[2]	3 hrs.
Music (Elective)	2 hrs.
Elective	3 hrs.
	17 hrs.

Second Semester

Art 475—Commercial Art and Illustration or Art 476—Advanced Painting	3 hrs.
Education 421a—Educational Measurements	2 hrs.
Education, Elementary (Elective)[2]	3 hrs.
Elective	8 hrs.
	16 hrs.

[2] Course in supervision must be elected if student is fulfilling requirements for supervisor's certificate.

CURRICULUM FOR A MAJOR IN BIOLOGY*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Biology 231—Botany I. General Botany	4 hrs.
Chemistry 111—General Chemistry	4 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

Second Semester

Biology 241—Invertebrate Zoology	4 hrs.
Chemistry 112—Inorganic Chemistry	5 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 219—Survey of Literature II	3 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Biology 242—Comparative Anatomy	4 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Elective	9 hrs.
	16 hrs.

Second Semester

Biology 335—Local Flora	2 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Elective	10 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Biology 433—Plant Diseases	3 hrs.
Education 463—Student Teaching	6 hrs.
Elective	8 hrs.
	17 hrs.

Second Semester

Biology 481—Animal Physiology	4 hrs.
Education, Secondary (Elective)	2 hrs.
Elective	11 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN CHEMISTRY*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
Elective	4 hrs.
	15½ hrs.

SECOND YEAR

First Semester

Chemistry 111—General Chemistry	4 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	5 hrs.
	15½ hrs.

Second Semester

Chemistry 112—Inorganic Chemistry	5 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 219—Survey of Literature II	3 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
Elective	4 hrs.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Chemistry 213—Qualitative Analysis	4 hrs.
Chemistry 215—Organic Chemistry	5 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Chemistry 216—Quantitative Analysis	5 hrs.
Chemistry 312—Advanced Organic Chemistry	4 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Elective	3 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Chemistry 411—Advanced Quantitative Analysis	3 hrs.
Education 463—Student Teaching	6 hrs.
Elective	8 hrs.
	17 hrs.

Second Semester

Chemistry 313—Biochemistry or Chemistry 415—Physical Chemistry	5 hrs.
Education, Secondary (Elective)	2 hrs.
Elective	10 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN COMMERCE*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Commerce 151—Beginning Typewriting	2 hrs.
Economics 124—Economic History of Europe	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

Commerce 126—Business Arithmetic	2 hrs.
Commerce 152—Intermediate Typewriting	2 hrs.
Education 111—Educational Psychology	3 hrs.
English 102—Oral and Written Composition	3 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

SECOND YEAR

First Semester

Commerce 215—Beginning Shorthand	3 hrs.
Commerce 219—Principles of Accounting	4 hrs.
Commerce 253—Advanced Typewriting	2 hrs.
English 218—Survey of Literature I	3 hrs.
Health 100—Personal Hygiene	2 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	16½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
Commerce 216—Advanced Shorthand[1]	3 hrs.
Commerce 220—Principles of Accounting	2 hrs.
Economics 230—Principles of Economics	3 hrs.
English 219—Survey of Literature II	3 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Commerce 301—Business English	3 hrs.
Economics 231—Principles of Applied Economics	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Science (Elective)	4 hrs.
Elective	3 hrs.
	16 hrs.

Second Semester

Commerce 303—Secretarial Practice[1]	3 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Science (Elective)	4 hrs.
Elective	5 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Commerce (Elective)	3 hrs.
Education 463—Student Teaching	6 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Commerce (Elective)	3 hrs.
Education, Secondary (Elective)	2 hrs.
Elective	11 hrs.
	16 hrs.

[1] Students desiring to be teachers of Economics, Accounting, Business, etc., may secure recommendation of the head of the department and take Commerce 309 and Commerce 322 in lieu of these courses.

CURRICULUM FOR A MAJOR IN ELEMENTARY EDUCATION

Not to be followed by first-year students who enter the institution after September 1, 1937.

(This curriculum satisfies all the requirements for the Standard Elementary Certificate.)

FIRST YEAR

First Semester

Education 102—Introduction to Education	3 hrs.
English 101—Oral and Written Composition	3 hrs.
Geography 101—Principles of Geography	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Science 110—Survey of Science	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Education 111—Educational Psychology	3 hrs.
English 102—Oral and Written Composition	3 hrs.
Health 101—Public Hygiene	3 hrs.
History 142—History of Civilization II	3 hrs.
Science 111—Survey of Science	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Art 161—Public School Art	2 hrs.
Art 217—Lettering and Poster Design	2 hrs.
English 163—Fundamentals of Speech	3 hrs.
English 218—Survey of Literature I	3 hrs.
Industrial Arts 222—Primary Handicraft	2 hrs.
Mathematics 160—Teachers' Arithmetic	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

English 219—Survey of Literature II	3 hrs.
English 261—Literature for Primary Grades or English 266—Literature for Intermediate Grades	3 hrs.
Government 111—American Government and Citizenship	3 hrs.
Geography 271—Geography of North America	3 hrs.
Music 160—Public School Music	2 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

THIRD YEAR

First Semester

Education 313—Child Psychology	3 hrs.
Education 354—Reading in the Elementary School	3 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
History (Elective)	3 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Education 261—Fundamentals of Elementary Education or Education 263—Fundamentals of Intermediate Education	4 hrs.
Science (Elective)	3 hrs.
Sociology 331—Introduction to Sociology	3 hrs.
Elective	7 hrs.
	17 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Education (Elementary)	3 hrs.
Geography 372—Geography of Europe	3 hrs.
Music—Elective	2 hrs.
Elective	3 hrs.
	17 hrs.

Second Semester

Education 441—The Elementary School Curriculum	3 hrs.
Education (Elementary)	3 hrs.
Education 421a—Educational Measurements	2 hrs.
Elective	8 hrs.
	16 hrs.

CURRICULUM FOR A MAJOR IN ENGLISH*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
Foreign Language (Elective)	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
Foregin Language (Elective)	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
Elective[1]	4 hrs.
	15½ hrs.

SECOND YEAR

First Semester

Biology 121—General Biology	4 hrs.
English 163—Fundamentals of Speech or English 231—Public Speaking	3 hrs.
English 218—Survey of Literature I	3 hrs.
Foreign Language (Elective)	3 hrs.
History 242—English History to the Stuarts	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Economics, Government, History, Sociology (Elective)	3 hrs.
English 265—Grammar for Teachers	2 hrs.
English 219—Survey of Literature II	3 hrs.
Foreign Language (Elective)	3 hrs.
Science (Elective)	4 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

[1] Must be elected with the advice and consent of the head of the department.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
English 301—Advanced Composition	3 hrs.
English 321—Romantic and Victorian Poets	3 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
English 311—Shakespeare	3 hrs.
Science (Elective)	4 hrs.
Elective	5 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
English (Elective)	3 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
English 441—History of the English Language	3 hrs.
Elective	11 hrs.
	16 hrs.

CURRICULUM FOR A MAJOR IN FOREIGN LANGUAGE*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
French or Latin[1]	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	15½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
French or Latin[1]	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Biology 231—Botany I. General Botany	4 hrs.
English 218—Survey of Literature I	3 hrs.
French and Latin[1]	6 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	15½ hrs.

Second Semester

Biology (Elective)	4 hrs.
English 219—Survey of Literature II	3 hrs.
French and Latin[1]	6 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
Elective	3 hrs.
	16½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Economics, Government, History, Sociology (Elective)[2]	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
French and Latin[1]	6 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Economics, Government, History, Sociology (Elective)[2]	3 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
French and Latin[1]	6 hrs.
Elective	3 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
French and Latin[1]	6 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
French and Latin[1]	6 hrs.
Elective	9 hrs.
	17 hrs.

[1] The student must offer at least 24 hours in French and 18 hours in Latin (exclusive of "100" courses).
[2] Must be elected with advice and consent of head of department.

CURRICULUM FOR A MAJOR IN GEOGRAPHY AND GEOLOGY*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
Elective	4 hrs.
	15½ hrs.

SECOND YEAR

First Semester

Economics 124—Economic History of Europe	3 hrs.
English 218—Survey of Literature I	3 hrs.
Geography 101—Principles of Geography	3 hrs.
Science (Elective)	4 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	15½ hrs.

Second Semester

English 219—Survey of Literature II	3 hrs.
Geography 202—Climatology or Geography 221—Economic Geography of the Industries	3 hrs.
Science (Elective)	5 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
Elective	4 hrs.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Economics, Government, History, Sociology	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Geography (Elective)	3 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Geography (Elective)	6 hrs.
Elective	6 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Geography 471—Geography of World Problems	3 hrs.
Geography (Elective)	3 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Geography (Elective)	6 hrs.
Elective	9 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN HEALTH AND PHYSICAL EDUCATION*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Chemistry 111—General Chemistry	4 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Health 101—Public Hygiene	3 hrs.
Physical Education 250—Scouting or Physical Education 251—Clubcraft	3 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Chemistry 112—Inorganic Chemistry	5 hrs.
Economics, Government, History, Sociology (Elective)[2]	3 hrs.
English 219—Survey of Literature II	3 hrs.
Health 202—First Aid to the Injured	1 hr.
Physical Education (Elective)[1]	2 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

[1] Men students may choose two hours from the following courses: Physical Education 260, 265, 275, 276, 300.

[2] Women students may choose two hours from the following courses: Physical Education 275, 276, 300.

THIRD YEAR

First Semester

Biology 242—Comparative Anatomy	4 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Health 362—Individual Gymnastics	2 hrs.
Physical Education 366—Materials and Methods for Teaching Physical Education or Physical Education 468—Administration and Organization of Physical Education	2 hrs.
Physical Education 367—Physical Training Activities	2 hrs.
Elective	3 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Health 365—Materials and Methods for Teaching Health Education	2 hrs.
Physical Education 368—Advanced Physical Training Activities	2 hrs.
Elective	8 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Biology 481—Animal Physiology	4 hrs.
Education 463—Student Teaching	6 hrs.
Elective	6 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Physical Education 463—History and Principles of Physical Education	3 hrs.
Elective	12 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN HISTORY*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
Foreign Language (Elective)	3 hrs.
Geography 101—Principles of Geography	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
Foreign Language (Elective)	3 hrs.
Government 111—American Government and Citizenship	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

SECOND YEAR

First Semester

English 218—Survey of Literature I	3 hrs.
Foreign Language (Elective)	3 hrs.
History 202—American History	3 hrs.
History (Elective)[1]	3 hrs.
Science (Elective)	4 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

English 219—Survey of Literature II	3 hrs.
Foreign Language (Elective)	3 hrs.
History 203—American History	3 hrs.
History (Elective)[1]	3 hrs.
Science (Elective)	4 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
History (Elective)[1]	3 hrs.
Science (Elective)	4 hrs.
Elective	6 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Sociology 331—Introduction to Sociology	3 hrs.
Elective	9 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
History (Elective)[1]	3 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Geography 471—Geography of World Problems	3 hrs.
History (Elective)[1]	3 hrs.
Elective	8 hrs.
	16 hrs.

[1] Must be elected with advice and consent of head of department.

CURRICULUM FOR A MAJOR IN INDUSTRIAL ARTS*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
History 142—History of Civilization II	3 hrs.
Industrial Arts 191—Elementary Mechanical Drawing	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Science (Elective)	4 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

SECOND YEAR

First Semester

Art 161—Public School Art	2 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Industrial Arts 141—Elementary Cabinet Making	3 hrs.
Industrial Arts 280—General Metal Working	2 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	3 hrs.
	16½ hrs.

Second Semester

Economics, Government, History, Sociology (Elective)	3 hrs.
English 219—Survey of Literature II	3 hrs.
Industrial Arts 233—Industrial Arts Design	2 hrs.
Industrial Arts 242—Intermediate Cabinet Making and Wood Turning	2 hrs.
Industrial Arts 292—Elementary Machine Drawing	2 hrs.
Science (Elective)	4 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
Industrial Arts 343—Advanced Cabinet Making and Mill Work	2 hrs.
Science (Elective)	4 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Industrial Arts 361—Organization, Administration and Supervision of Industrial Arts	2 hrs.
Industrial Arts 394—Elementary Architectural Drawing	2 hrs.
Elective	8 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Industrial Arts 466—Teaching of Industrial Arts	2 hrs.
Elective	8 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Industrial Arts 401—Problems in Industrial Arts	1 or 2 hrs.
Industrial Arts (Elective)	3 or 2 hrs.
Elective	10 hrs.
	16 hrs.

CURRICULUM FOR A MAJOR IN MATHEMATICS*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
Elective	4 hrs.
	15½ hrs.

SECOND YEAR

First Semester

Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Mathematics 207—College Algebra	2 hrs.
Physics 201—Mechanics, Heat and Sound	5 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	15½ hrs.

Second Semester

Economics, Government, History, Sociology (Elective)	3 hrs.
English 219—Survey of Literature II	3 hrs.
Mathematics 232—Analytic Geometry	5 hrs.
Physics 202—Electricity, Magnetism, Wave Motion and Sound and Light	5 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
Mathematics 321—General Astronomy	3 hrs.
Mathematics 351—Differential Calculus	5 hrs.
Elective	5 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Mathematics 342—Elementary Statistical Methods	2 hrs.
Mathematics 352—Integral Calculus	3 hrs.
Physics (Elective)	3 to 5 hrs.
Elective	4 to 2 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Mathematics 467—Teaching of High School Mathematics	3 hrs.
Elective	7 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Mathematics (Elective)	3 hrs.
Elective	11 hrs.
	16 hrs.

CURRICULUM FOR A MAJOR IN MUSIC*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 102—Introduction to Education	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Mathematics 160—Teachers' Arithmetic	3 hrs.
Science 110—Survey of Science	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

Education 111—Educational Psychology	3 hrs.
English 102—Oral and Written Composition	3 hrs.
History 142—History of Civilization II	3 hrs.
Music 150—Elements of Music	2 hrs.
Music 160—Public School Music	2 hrs.
Science 111—Survey of Science	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

SECOND YEAR

First Semester

Art 161—Public School Art	2 hrs.
Biology 231—Botany I. General Botany	4 hrs.
English 218—Survey of Literature I	3 hrs.
Health 101—Public Hygiene	3 hrs.
Music 211a—Piano	2 hrs.
Music 238a—Violin. Class Instruction	1 hr.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

Second Semester

English 219—Survey of Literature II	3 hrs.
English 261—Literature for Primary Grades or English 266—Literature for Intermediate Grades	3 hrs.
Geography 101—Principles of Geography	3 hrs.
History 241—European History from 1500 to 1715	3 hrs.
Music 211b—Piano	2 hrs.
Music 238b—Violin. Class Instruction	1 hr.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

* This curriculum satisfies all the requirements for the standard elementary certificate.

THIRD YEAR

First Semester

Art (Elective)	2 hrs.
Education 313—Child Psychology	3 hrs.
Education 354—Reading in the Elementary School	3 hrs.
Music 221a—Voice	2 hrs.
Music 251—Harmony I	2 hrs.
Music 252—Sight Singing and Ear Training I	1 hr.
Sociology 331—Introduction to Sociology	3 hrs.
	16 hrs.

Second Semester

Economics, Government, History, Sociology (Elective)	3 hrs.
Education 261—Fundamentals in Early Elementary Education or Education 263—Fundamentals in Intermediate Education	4 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
Music 221b—Voice	2 hrs.
Music 248a—Wind Instrument Class	1 hr.
Music 253—Harmony II	2 hrs.
Music 254—Sight Singing and Ear Training II	1 hr.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Education, Elementary (Elective)[1]	3 hrs.
Music 302—Music History I	2 hrs.
Music 351—Harmony III	2 hrs.
Music 352—Sight Singing and Ear Training III	1 hr.
Music: Piano, Voice, Violin (Elective)	3 hrs.
	17 hrs.

Second Semester

Education 421a—Educational Measurement	2 hrs.
Education, Elementary (Elective)[1]	3 hrs.
Music 303—Music History II	2 hrs.
Music 353—Harmony IV	2 hrs.
Music 354—Sight Singing and Ear Training IV	1 hr.
Music 361—Grade Methods and Materials	2 hrs.
Music 362—Conducting	2 hrs.
Music: Piano, Voice, Violin (Elective)	2 hrs.
	16 hrs.

[1] Must be elected with advice and consent of head of department.

CURRICULUM FOR A MAJOR IN MUSIC*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
Foreign Language (Elective)	3 hrs.
History 141—History of Civilization I	3 hrs.
Music 150—Elements of Music	2 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
	14½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
Foreign Language (Elective)	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Biology 231—Botany I. General Botany	4 hrs.
English 218—Survey of Literature I	3 hrs.
Foreign Language (Elective)	3 hrs.
Music 211a—Piano	2 hrs.
Music 238a—Violin. Class Instruction	1 hr.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
Elective	3 hrs.
	16½ hrs.

Second Semester

English 219—Survey of Literature II	3 hrs.
Foreign Language (Elective)	3 hrs.
History 241—European History from 1500 to 1715	3 hrs.
Music 211b—Piano	2 hrs.
Music 238b—Violin. Class Instruction	1 hr.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
Elective	3 hrs.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
Music 221a—Voice	2 hrs.
Music 251—Harmony I	2 hrs.
Music 252—Sight Singing and Ear Training I	1 hr.
Science (Elective)	4 hrs.
Elective	4 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Music 221b—Voice	2 hrs.
Music 248a—Wind Instrument Class	1 hr.
Music 253—Harmony II	2 hrs.
Music 254—Sight Singing and Ear Training II	1 hr.
Sociology 331—Introduction to Sociology	3 hrs.
Elective	4 hrs.
	17 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Music 302—Music History I	2 hrs.
Music 351—Harmony III	2 hrs.
Music 352—Sight Singing and Ear Training III	1 hr.
Music: Piano, Voice, Violin (Elective)	2 hrs.
Elective	3 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Music 303—Music History II	2 hrs.
Music 353—Harmony IV	2 hrs.
Music 354—Sight Singing and Ear Training IV	1 hr.
Music 361—Grade Methods and Materials	2 hrs.
Music 362—Conducting	2 hrs.
Music: Piano, Voice, Violin (Elective)	2 hrs.
Elective	4 hrs.
	17 hrs.

CURRICULUM FOR A MAJOR IN PHYSICS*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 or 3 hrs.
	15½ or 16½ hrs.

Second Semester

Chemistry 111—General Chemistry	4 hrs.
English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Chemistry 112—Inorganic Chemistry	5 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
English 218—Survey of Literature I	3 hrs.
Physics 201—Mechanics, Heat, and Sound	5 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Economics, Government, History, Sociology	3 hrs.
English 219—Survey of Literature II	3 hrs.
Mathematics 232—Analytic Geometry	5 hrs.
Physics 202—Electricity, Magnetism, Wave Motion and Sound, and Light	5 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Education 314—Psychology of Adolescence	3 hrs.
Mathematics 351—Differential Calculus	5 hrs.
Physics 302—Introduction to Physical Optics	3 hrs.
Elective	5 hrs.
	16 hrs.

Second Semester

Education 364—Fundamentals of Secondary Education	4 hrs.
Mathematics 352—Integral Calculus	3 hrs.
Physics 304—Advanced Electricity and Magnetism	3 hrs.
Elective	6 hrs.
	16 hrs.

FOURTH YEAR

First Semester

Education 463—Student Teaching	6 hrs.
Physics 401—An Advanced Course in Mechanics	5 hrs.
Elective	5 hrs.
	16 hrs.

Second Semester

Education, Secondary (Elective)	2 hrs.
Physics (Elective)	4 hrs.
Elective	10 hrs.
	16 hrs.

CURRICULUM FOR A MAJOR IN SCIENCE*

Not to be followed by first-year students who enter the institution after September 1, 1937.

FIRST YEAR

First Semester

Education 111—Educational Psychology	3 hrs.
English 101—Oral and Written Composition	3 hrs.
History 141—History of Civilization I	3 hrs.
Library Science 166—Library Orientation	1 hr.
Mathematics 107—College Algebra	3 hrs.
Physical Education 110a—Fundamental Physical Education Activities	½ hr.
Elective	2 hrs.
	15½ hrs.

Second Semester

Biology 121—General Biology	4 hrs.
English 102—Oral and Written Composition	3 hrs.
Health 100—Personal Hygiene	2 hrs.
History 142—History of Civilization II	3 hrs.
Mathematics 113—Trigonometry	3 hrs.
Physical Education 110b—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

SECOND YEAR

First Semester

Biology 231—Botany I. General Botany	4 hrs.
Chemistry 111—General Chemistry	4 hrs.
English 218—Survey of Literature I	3 hrs.
Physics 201—Mechanics, Heat, and Sound	5 hrs.
Physical Education 200c—Fundamental Physical Education Activities	½ hr.
	16½ hrs.

Second Semester

Chemistry 112—Inorganic Chemistry	5 hrs.
English 219—Survey of Literature II	3 hrs.
Physics 202—Electricity, Magnetism, Wave Motion and Sound, and Light	5 hrs.
Elective	2 hrs.
Physical Education 200d—Fundamental Physical Education Activities	½ hr.
	15½ hrs.

* This curriculum satisfies all the requirements for the provisional high school certificate.

THIRD YEAR

First Semester

Biology, Chemistry, Physics (Elective)	3 to 5 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
Education 314—Psychology of Adolescence	3 hrs.
Geology 301—Physical Geography and Geology	3 hrs.
Elective	4 to 2 hrs.
	16 hrs.

Second Semester

Biology, Chemistry, Physics (Elective)	3 to 5 hrs.
Economics, Government, History, Sociology (Elective)	3 hrs.
Education 364—Fundamentals of Secondary Education	4 hrs.
Mathematics 321—General Astronomy	3 hrs.
Elective	3 to 1 hr.
	16 hrs.

FOURTH YEAR

First Semester

Biology, Chemistry, Physics (Elective)	3 to 5 hrs.
Education 463—Student Teaching	6 hrs.
Health 303—Applied Bacteriology	5 hrs.
Elective	2 to 0 hrs.
	16 hrs.

Second Semester

Biology, Chemistry, Physics (Elective)	3 to 5 hrs.
Education, Secondary (Elective)	2 hrs.
Elective	11 to 9 hrs.
	16 hrs.

REQUIREMENTS FOR SECONDARY MAJORS AND MINORS

AGRICULTURE

Secondary Major

Agriculture	126—Farm Poultry	3 hrs.
	131—General Horticulture	3 hrs.
	211—Farm Crops	3 hrs.
	223—Market Milk or 224—Dairy Cattle Management	3 hrs.
	315—Soils	3 hrs.
	321—Feed and Feeding	3 hrs.
	345—Farm Management and Farm Accounts	3 hrs.
Sociology	243—Rural Sociology	3 hrs.

Minor A minimum of 18 semester hours must be elected from the following courses:

Agriculture	126—Farm Poultry	3 hrs.
	131—General Horticulture	3 hrs.
	211—Farm Crops	3 hrs.
	224—Dairy Cattle Management	3 hrs.
	228—Meat Production	3 hrs.
	315—Soils	3 hrs.
	321—Feed and Feeding	3 hrs.
	345—Farm Management and Farm Accounts	3 hrs.
Sociology	243—Rural Sociology	3 hrs.

ART

Secondary Major

Art	117—Elementary Drawing and Design or Art 161—Public School Art	4 or 2 hrs.
	200—Appreciation of Art	2 hrs.
	215—Color Theory	1 hr.
	217—Lettering and Poster Design	2 hrs.
	315—Drawing, Painting and Composition or 222—Interior Decoration	3 or 2 hrs.
	316—Drawing and Modeling or 155—Costume Design	2 hrs.
	361—Art Education in the Elementary and Secondary School	3 hrs.
	372—Applied Design	3 hrs.
	390—The History of Art	3 hrs.
	475—Commercial Art and Illustration or 476—Advanced Painting	3 hrs.

Minor (Appreciation and Methods)

117—Elementary Drawing and Design	4 hrs.
200—Appreciation of Art	2 hrs.
217—Lettering and Poster Design	2 hrs.
222—Interior Decoration	2 hrs.
155—Costume Design	2 hrs.
361—Art Education in the Elementary and Secondary School	3 hrs.
390—The History of Art	3 hrs.

Minor (Technical)

117—Elementary Drawing and Design	4 hrs.
217—Lettering and Poster Design	2 hrs.
315—Drawing, Painting and Composition	3 hrs.
361—Art Education in the Elementary and Secondary School	3 hrs.
372—Applied Design	3 hrs.
475—Commercial Art and Illustration	3 hrs.

BIOLOGY

Secondary Major

Biology

121—General Biology	4 hrs.
231—Botany I. General Botany	4 hrs.
241—Invertebrate Zoology	4 hrs.
242—Comparative Anatomy	4 hrs.
335—Local Flora	2 hrs.
433—Plant Diseases	3 hrs.
481—Animal Physiology	4 hrs.

Minor

121—General Biology	4 hrs.
231—Botany I. General Botany	4 hrs.
335—Local Flora	2 hrs.
241—Invertebrate Zoology	4 hrs.
481—Animal Physiology	4 hrs.

CHEMISTRY

Secondary Major

Chemistry

111—General Chemistry	4 hrs.
112—Inorganic Chemistry	5 hrs.
113—Qualitative Analysis	4 hrs.
215—Organic Chemistry	5 hrs.
216—Quantitative Analysis	5 hrs.

One course elected from the following:

312—Advanced Organic Chemistry
313—Biochemistry
411—Advanced Quantitative Analysis
415—Physical Chemistry

Minor

111—General Chemistry	4 hrs.
112—Inorganic Chemistry	5 hrs.
213—Qualitative Analysis	4 hrs.
215—Organic Chemistry or 216—Quantitative Analysis	5 hrs.

COMMERCE

Secondary Major

Commerce

151—Beginning Typewriting	2 hrs.
152—Intermediate Typewriting	2 hrs.
253—Advanced Typewriting	2 hrs.
215—Beginning Shorthand	3 hrs.
216—Advanced Shorthand	3 hrs.
219—Principles of Accounting	4 hrs.
220—Principles of Accounting	2 hrs.
322—Principles of Accounting	2 hrs.
301—Business English	3 hrs.
230—Principles of Economics	3 hrs.

Minor (Secretarial)

151—Beginning Typewriting	2 hrs.
152—Intermediate Typewriting	2 hrs.
215—Beginning Shorthand	3 hrs.
219—Principles of Accounting	4 hrs.
220—Principles of Accounting	2 hrs.
230—Principles of Economics	3 hrs.

Minor (Accounting and Economics)

124—Economic History of Europe	3 hrs.
219—Principles of Accounting	4 hrs.
230—Principles of Economics	3 hrs.
231—Principles of Applied Economics	3 hrs.
310—American Economic History	3 hrs.
324—Money and Banking or 430—Public Finance	3 hrs.

ENGLISH

Secondary Major

English 163—Fundamentals of Speech or 231—Public Speaking	3 hrs.
218—Survey of Literature I	3 hrs.
219—Survey of Literature II	3 hrs.
265—Grammar for Teachers or 441—History of the English Language	2 or 3 hrs.
301—Advanced Composition	3 hrs.
311—Shakespeare	3 hrs.
321—Romantic and Victorian Poets	3 hrs.
English (Elective)	3 hrs.

Minor

163—Fundamentals of Speech or 231—Public Speaking	3 hrs.
218—Survey of Literature I	3 hrs.
219—Survey of Literature II	3 hrs.
301—Advanced Composition	3 hrs.
311—Shakespeare	3 hrs.
321—Romantic and Victorian Poets or 317—Contemporary Literature	3 hrs.

FRENCH

Secondary Major

24 semester hours of French exlusive of:	
French 101—Elementary French	3 hrs.
French 102—Elementary French	3 hrs.

Minor

18 semester hours of French exclusive of:	
French 101—Elementary French	3 hrs.
French 102—Elementary French	3 hrs.

GEOGRAPHY AND GEOLOGY

Secondary Major

Geography 101—Principles of Geography	3 hrs.
202—Climatology or 221—Economic Geography of the Industries	3 hrs.
301—Physical Geography and Geology	3 hrs.
471—Geography of World Problems	3 hrs.
Geography (Elective)	12 hrs.

Minor

	101—Principles of Geography	3 hrs.
	202—Climatology or 221—Economic Geography of the Industries	3 hrs.
	301—Physical Geography and Geology	3 hrs.
	471—Geography of World Problems	3 hrs.
	Geography (Elective)	6 hrs.

HEALTH AND PHYSICAL EDUCATION

Secondary Major

Health	100—Personal Hygiene	2 hrs.
	101—Public Hygiene	3 hrs.
	202—First Aid to the Injured	1 hr.
	362—Individual Gymnastics	2 hrs.
Physical Educ.	250—Scouting or 251—Clubcraft	3 hrs.
	366—Materials and Methods for Teaching Physical Education or 468—Administration and Organization of Physical Education	2 hrs.
	367—Physical Training Activities	2 hrs.
	368—Advanced Physical Training Activities	2 hrs.
	463—History and Principles of Physical Education	3 hrs.
	Physical Education (Elective)	4 hrs.

Minor

Health	100—Personal Hygiene	2 hrs
	101—Public Hygiene	3 hrs.
	202—First Aid to the Injured	1 hr.
	365—Materials and Methods for Teaching Health Education	2 hrs.
Physical Educ.	250—Scouting or 251—Clubcraft	3 hrs.
	366—Materials and Methods for Teaching Physical Education or 468—Administration and Organization of Physical Education	2 hrs.
	367—Physical Training Activities	2 hrs.
	368—Advanced Physical Training Activities	2 hrs.
	463—History and Principles of Physical Education	3 hrs.

HISTORY

Secondary Major

History	202—American History	3 hrs.
	203—American History	3 hrs.
	15 semester hours elected with advice and consent of head of department	
Government	111—American Government and Citizenship	3 hrs.

Minor

History	202—American History	3 hrs.
	203—American History	3 hrs.
	9 semester hours elected with advice and consent of head of department	
Government	111—American Government and Citizenship	3 hrs.

HOME ECONOMICS

Secondary Major

Home Economics	203—Garment Making	3 hrs.
	204—Nutrition and Food Preparation	3 hrs.
	205—Meal Planning, Preparation and Serving	3 hrs.
	206—Dressmaking	2 hrs.
	222—Interior Decoration	2 hrs.
	231—Home Nursing	2 hrs.
	308—Consumer Buying	2 hrs.
	309—Nutrition	3 hrs.
	402—Child Development	3 hrs.
	Home Economics (Elective)	2 hrs.

Minor

203—Garment Making	3 hrs.
204—Nutrition and Food Preparation	3 hrs.
222—Interior Decoration	2 hrs.
231—Home Nursing	2 hrs.
308—Consumer Buying	2 hrs.
309—Nutrition	3 hrs.
402—Child Development	3 hrs.

INDUSTRIAL ARTS

Secondary Major

Industrial Arts	141—Elementary Cabinet Making	3 hrs.
	191—Elementary Mechanical Drawing	3 hrs.
	233—Industrial Arts Design	2 hrs.
	242—Intermediate Cabinet Making and Wood Turning	2 hrs.
	280—General Metal Working	2 hrs.
	292—Elementary Machine Drawing	2 hrs.
	343—Advanced Cabinet Making and Mill Work	2 hrs.
	361—Organization, Administration and Supervision of Industrial Arts	2 hrs.
	394—Elementary Architectural Drawing	2 hrs.
	401—Problems in Industrial Arts	1 or 2 hrs.
	466—Teaching of Industrial Arts	2 hrs.

Minor

141—Elementary Cabinet Making	3 hrs.
191—Elementary Mechanical Drawing	3 hrs.
242—Intermediate Cabinet Making and Wood Turning	2 hrs.
280—General Metal Working	2 hrs.
292—Elementary Machine Drawing	2 hrs.
361—Organization, Administration and Supervision of Industrial Arts	2 hrs.
394—Elementary Architectural Drawing	2 hrs.
401—Problems in Industrial Arts	1 or 2 hrs.

LATIN

Minor

18 semester hours elected with advice and concent of head of the department

MATHEMATICS

Secondary Major

Mathematics	107—College Algebra	3 hrs.
	113—Trigonometry	3 hrs.
	207—College Algebra	2 hrs.
	232—Analytic Geometry	5 hrs.
	351—Differential Calculus	5 hrs.
	352—Integral Calculus	3 hrs.
	Mathematics (Elective)	3 hrs.

Minor

107—College Algebra	3 hrs.
113—Trigonometry	3 hrs.
207—College Algebra	2 hrs.
232—Analytic Geometry	5 hrs.
351—Differential Calculus	5 hrs.

MUSIC

Secondary Major

Music	150—Elements of Music	2 hrs.
	160—Public School Music	2 hrs.
	201—Music Appreciation	3 hrs.
	17 semester hours to be elected with advice and consent of head of department.	

Minor

150—Elements of Music	2 hrs.
160—Public School Music	2 hrs.
201—Music Appreciation	3 hrs.
11 semester hours to be elected with advice and consent of head of department.	

PHYSICS

Secondary Major

Physics	201—Mechanics, Heat, and Sound	5 hrs.
	202—Electricity, Magnetism, Wave Motion and Sound, and Light	5 hrs.
	302—Introduction to Physical Optics	3 hrs.
	304—Advanced Electricity and Magnetism	3 hrs.
	401—An Advanced Course in Mechanics	5 hrs.
	Physics (Elective)	3 hrs.

Minor

201—Mechanics, Heat, and Sound	5 hrs.
202—Electricity, Magnetism, Wave Motion and Sound, and Light	5 hrs.
302—Introduction to Physical Optics	3 hrs.
304—Advanced Electricity and Magnetism	3 hrs.
Physics (Elective)	3 to 5 hrs.